For as an insecticide on ornamentals grown in interiorscapes, for perimeter insect control on lawns, ornamental trees and shrubs around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields, treatment of preconstruction lumber and logs, and for use on buildings/structures.

For control of subterranean termites: For use by individuals/firms licensed or registered by the state to apply termiticide 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.

**Active Ingredient**

- Permethrin* ........................................................................................................................................ 36.8%
- cis/trans
- cis
- trans
- Contains petroleum distillates.
- Contains 3.2 pounds permethrin per gallon as an emulsifiable concentrate.

**KEEP OUT OF REACH OF CHILDREN CAUTION**

**FIRST AID**

- IF SWALLOWED: • Immediately call a poison control center or doctor.
- • Do not induce vomiting unless told to do so by a poison control center or doctor.
- • Do not give any liquid to the person.
- • Do not give anything by mouth to an unconscious person.

- IF ON SKIN OR CLOTHING: • Take off contaminated clothing.
- • Rinse skin immediately with plenty of water for 15-20 minutes.
- • Call a poison control center or doctor for treatment advice.

- IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- • Call a poison control center or doctor for treatment advice.

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

**NOTE TO PHYSICIAN:**

- In case of exposure, call a physician.
- • 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.

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans & Domestic Animals**

**CAUTION:** Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or 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.

**Environmental Hazards**

This product is highly toxic to bees exposed to treatment and for 3 days following treatment. Do not apply this pesticide to blooming, pollen-shedding or nectar-producing plants if bees may forage on the plants during this time period. The 3 day limitation does not apply if the operator applies in a state with a formal, state-approved bee protection program, and the applicator follows all applicable requirements of the state-approved program designed to ensure that managed bees are not present in the treatment area during this time period.

This product is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Do not apply when weather conditions favor drift from treated areas.

**Physical/Chemical Hazards**

Do not use or store near heat or open flame.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. States may have more restrictive requirements regarding qualifications of persons using this product. Consult your State Pest Control Regulatory Agency prior to use of this product.

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

**GENERAL USE INFORMATION**

**Spray application:**

Tengard SFR can be tank mixed with pyrethrin-containing products or Insect Growth Regulators (IGRs). Do not tank mix with dichlorvos (DDVP) or other fumigant products. Do not tank mix when applied as a soil termiticide.

**Applications for the Control of Subterranean Termites**

**General Application Instructions**

Tengard SFR acts as an insecticidal barrier to control and prevent subterranean termite (Coptotermes, Heterotermes, Reticulitermes and Zootermopsis) infestations in and around structures. For effective control the insecticide emulsion must be adequately dispersed in the soil to establish a barrier between the structure and the termites in the soil. To establish an effective insecticidal barrier with this product the pesticide control practices and application techniques should be selected by a trained service technician familiar with current termite control practices.

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 treated soil around the deposition of termicide in locations other than those prescribed on this label must be cleaned up prior to the lifting of soil. If the structure is used for storage, the treated area (site) is likely to occur.

Do not apply to drainage systems such as sumps, french drains, leach beds or other effluent discharge systems. Fish kills may occur in water bodies contiguous to the application area. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Do not apply when weather conditions favor drift from treated areas.

**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) French drain and remove soil to be treated. After application of termicide, the soil is returned to its original position or a wheellbarrow.
   b) Treat the soil at the rate of 4 gallons of dilute emulsion 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.
   c) After the treated soil has absorbed the diluted emulsion, 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 instructions 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 termicide to the surface drain that could empty into any bodies of water. These precautions include evaluating whether application of the termicide 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 depth of groundwater should be considered in determining the depth of treatment.

NOTE: If the water body is the side of the structure, the treated backfill technique (described above) can also be used to minimize off-site movement of termicide.

**Application Rate:** Use a 0.5% emulsion for subterranean termites. For other pests on the label use specific rates.

The dilute pesticide emulsion 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 exposed wood. These techniques must be correctly employed to prevent or control infestations to subterranean termites such as Coptotermes, Heterotermes, Reticulitermes, and Zootermopsis. 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 termite infestations.

**Important:**

Contamination of public and private water supplies must be avoided by following these procedures: Use appropriate follow-up procedures or procedures to prevent sphagnum of insecticide into water supplies. Do not contaminate cisterns or wells.

Do not treat soil that is water saturated or frozen in or any where conditions where runoff or movement from the treatment area (site) is likely to occur.

Do not treat while precipitation is occurring.

Do not apply to drainage systems such as sumps, french drains, leach beds or other effluent discharge systems. Follow all State and Local specifications for recommended treatment distances of wells and aquatic habitat. All holes in commonly occupied areas into which material has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material.

**Note:** Crawlspaces are considered inside of 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 stairs, patios, and slab additions.
Tengard SFR

Mixing Directions
Mix Tengard SFR and water only. For the desired application rate, use the chart below to determine the amount of product required for a given volume of finished emulsion.

<table>
<thead>
<tr>
<th>Desired Volume of Finished Emulsion</th>
<th>Emulsion Concentration (Tengard SFR + Water)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5%</td>
<td></td>
</tr>
<tr>
<td>1.0 gal. + 10 gal. H2O</td>
<td>2.0%</td>
</tr>
<tr>
<td>5.0 gal. + 40 gal. H2O</td>
<td></td>
</tr>
<tr>
<td>10.0 gal. + 80 gal. H2O</td>
<td></td>
</tr>
<tr>
<td>15.0 gal. + 60 gal. H2O</td>
<td></td>
</tr>
<tr>
<td>20.0 gal. + 50 gal. H2O</td>
<td></td>
</tr>
<tr>
<td>25.0 gal. + 40 gal. H2O</td>
<td></td>
</tr>
<tr>
<td>30.0 gal. + 30 gal. H2O</td>
<td></td>
</tr>
<tr>
<td>35.0 gal. + 25 gal. H2O</td>
<td></td>
</tr>
<tr>
<td>40.0 gal. + 20 gal. H2O</td>
<td></td>
</tr>
</tbody>
</table>

*Tentative Application Volume where soil will not accept the labeled application volume.

Post-Construction Treatment
Do not use excessive pressure (above 25 psi) when injecting to avoid soil wash-out around the foundation. Do not apply emulsion until location of wells, radiant heat pipes, water and sewer lines, and electrical conduit are clearly marked and identified. Care should be taken not to puncture and contaminate 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 as described for subgrade soils 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 a trench is being opened, 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.

Building Slabs: Vertical barrier applications may be established by sub-slab injection into the structure and accessible Crawls Spaces. Vertical barriers may be established by vertical barriers into the ground surface to allow operator access, excavate, if possible, and treat according to the instructions for applications for accessible crawls 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 emulsion per 10 square feet at 15 psi and no greater than 20 psi, type RD Raindrop, RD-7 or larger, or Spraying Systems Co. 8010LP TeeJet or comparable nozzle.

2. For a monolithic slab, an inside vertical barrier may not be required. Rod holes and trenches must not extend below the bottom 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. 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.

Basements and Crawl Spaces

Basements If the footing is greater than 1 foot in depth from grade to the bottom of the foundation, application must be made by trenching and rodding into this trench, or injecting at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth. When the footing is more than 4 feet below grade, the applicator must make a horizontal barrier by trenching, or trenching and rodding into the trench, or trenching. Rod holes must be spaced so as to achieve a continuous termiticide barrier, but in no case more than 12 inches apart. 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 here 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 chemical 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 (trenched) soil, the trench must be stepped to ensure adequate distribution and to prevent termiticide from runoff. The emulsion must be mixed with the soil as it is replaced in the trench.
4. For treating crawl spaces, turn off all air circulation systems of the structure until application has been completed and all termiticide has been absorbed by the soil.

Inaccessible Crawls 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 applications for accessible crawls 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 emulsion per 10 square feet at 15 psi and no greater than 20 psi, type RD Raindrop, RD-7 or larger, or Spraying Systems Co. 8010LP TeeJet or comparable nozzle.

2. For a monolithic slab, an inside vertical barrier may not be required. Rod holes and trenches must not extend below the bottom 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. 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.

When treating crawls spaces, turn off all air circulation systems of the structure until application has been completed and all termiticide has been absorbed by the soil.

Volume Adjustments for Horizontal and Vertical Tengard SFR Applications

<table>
<thead>
<tr>
<th>Volume Adjustments for Horizontal Tengard SFR Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Type</td>
</tr>
<tr>
<td>------------------</td>
</tr>
<tr>
<td>Horizontal (gallons per 10 square ft.)</td>
</tr>
<tr>
<td>Vertical (gallons per 10 linear ft.)</td>
</tr>
</tbody>
</table>

* Not recommended for subslab injection.

Tengard SFR Rate/Volume Conversion Chart

<table>
<thead>
<tr>
<th>Tengard SFR Rate</th>
<th>Volume Adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>0.75 gal. + 57.25 gal. water</td>
</tr>
<tr>
<td>1/3</td>
<td>1.0 gal. + 37 gal. water</td>
</tr>
<tr>
<td>1/2</td>
<td>1.0 gal. + 18 gal. water</td>
</tr>
<tr>
<td>2/3</td>
<td>1.0 gal. + 18.5 gal. water</td>
</tr>
<tr>
<td>5/6</td>
<td>1.5 gal. + 56 gal. water</td>
</tr>
<tr>
<td>3/4</td>
<td>1.5 gal. + 65 gal. water</td>
</tr>
<tr>
<td>7/8</td>
<td>1.5 gal. + 74 gal. water</td>
</tr>
<tr>
<td>1.0</td>
<td>2.0 gal. + 36 gal. water</td>
</tr>
<tr>
<td>1.5</td>
<td>2.5 gal. + 39 gal. water</td>
</tr>
</tbody>
</table>

When treating foundations deeper than 4 feet, apply any treatment as the backfill is being replaced, or if 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.

Inaccessible Crawls 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 applications for accessible crawls 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 emulsion per 10 square feet at 15 psi and no greater than 20 psi, type RD Raindrop, RD-7 or larger, or Spraying Systems Co. 8010LP TeeJet or comparable nozzle.

2. For a monolithic slab, an inside vertical barrier may not be required. Rod holes and trenches must not extend below the bottom 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. 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.

When treating crawls spaces, turn off all air circulation systems of the structure until application has been completed and all termiticide has been absorbed by the soil.

Inaccessible Crawls 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 applications for accessible crawls spaces. Otherwise, apply one, or a combination of the following two methods.

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2. For a monolithic slab, an inside vertical barrier may not be required. Rod holes and trenches must not extend below the bottom 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. 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.

When treating crawls spaces, turn off all air circulation systems of the structure until application has been completed and all termiticide has been absorbed by the soil.
Do not apply by air.

Low-velocity air blast may help to dislodge termites or arthropods harboring in voids. Application may be made to voids such as: beneath veneers, piers (concrete or wood), chimneys, into rubble and stone foundations, into block voids, structural voids (i.e., between walls and stories), polestumps, and wood in crawlspaces in walls using either the foam alone or in combination with liquid emulsion. Note location of electrical sources prior to foaming voids to avoid possible shock hazard.

Application Under Slabs or to Soil in Crawlspaces to Prevent or Control Termites

Application may be made using Tengard SFR foam alone or in combination with liquid emulsion. The equivalent of at least 4 gallons (8.4 ounces of Tengard SFR concentrate) of 0.5% emulsion per 10 linear feet (vertical barrier), or at least 1 gallon (1.6 ounces of Tengard SFR concentrate) of 0.5% emulsion per 10 square feet (horizontal barrier) must be applied either as emulsion, foam, or a combination of both. For a foam only application, apply Tengard SFR concentrate in sufficient foam concentration and foam volume to deposit 6.4 ounces of concentrate per 10 linear feet or 1.6 ounces of concentrate per 10 square feet. For example, 1 gallon of 2% emulsion generated as foam to cover 10 linear feet is equal to the application of 4 gallons of 0.5% emulsion per 10 linear feet. Foam and liquid application must be consistent with volume and active ingredient instructions in order to ensure proper treatment. The volume and amount of active ingredient are essential to an effective treatment. At least 75% of the labeled liquid emulsion volume of product must be applied, with the remaining percent delivered to appropriate areas using foam application. Refer to label and use recommendations on 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.

Sand Barrier Installation and Treatment

Termite can build mud tubes over treated surfaces as long as they have access to untreated soil and do not have to move Tengard SFR-treated soil. Fill in cracks and spaces with builder's or play box sand and treat the sand with Tengard SFR. The sand should be treated as soil following the termiticide rates listed on the Tengard SFR label.

Retreatment Intervals

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

Perimeter Treatment: Apply a band application 6 to 10 feet wide around and adjacent to the structure. Also, treat the base of the structure to a height of 2 to 3 feet. Use a spray volume of 1 to 2 gallons of emulsion per 1,000 square feet. If mulch or debris is present, a higher volume application rate may be needed to ensure adequate coverage. Treat the base of the structure to prevent insects from entering the structure.

Pests Under Slabs: Ants, cockroaches, scorpions and other nuisance pests inhabiting under paved areas may be controlled by drilling and injecting or horizontal riddling and then injecting 1 gallon of 0.5% to 1.0% emulsion per 10 square feet or 2 gallons per 10 linear feet.

Pest Control in Crawlspaces: Tengard SFR may be applied at a rate of 0.5% in crawlspaces to control ants, fleas, roaches, scorpions, or other nuisance insects noted in the table below. For proper termite directions see section on Applications for the Control of Subterranean Termites. Treat surfaces until wet. Keep children and pets off surface until dry.

Insect Pests Controlled by Tengard SFR

Pest | Specific Application Instructions
--- | ---
Ants | Use the higher rates for fast knockdown and increased residual control. Dense or excessive (greater than 3 inches) lawn height and arid conditions may require higher volume application rates. Repeat application if necessary. Application in combination with compatible surfactants or wetting agents may enhance penetration.

Lawn and Ornamental Applications

General Application Instructions

Tengard SFR may be used to control insect pests on ornamentals, lawns, trees, shrubs, and vines in landscape areas around residential, public, institutional, commercial and industrial buildings, and on plants intended for aesthetic purposes in interior gardens and plantspaces.

General Application Instructions

Apply Tengard SFR as a fine/loose, low pressure spray (20 psi or less), as a spot treatment or with a paintbrush. Treat where pests are found or entry points of the structure such as window and door frames and along the foundation.

*controllers: Ants, cockroaches, scorpions and other nuisance pests inhabiting under paved areas may be controlled by drilling and injecting or horizontal riddling and then injecting 1 gallon of 0.5% to 1.0% emulsion per 10 square feet or 2 gallons per 10 linear feet.

*New Pests: Ants, cockroaches, scorpions and other nuisance pests noted in the table below. For proper termite directions see section on Applications for the Control of Subterranean Termites. Treat surfaces until wet. Keep children and pets off surface until dry.

Spray Drift Precautions: Tengard SFR may be applied by most conventional ground application sprayers. Exercise care not to apply when wind velocity favors non-target movement or temperature inversions.

Do not apply by air.

Do not apply within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish ponds.
Application Rates for Ornamental Plants and Trees

<table>
<thead>
<tr>
<th>PLANT</th>
<th>PEST</th>
<th>TREATMENT RATE</th>
<th>SPECIFIC APPLICATION INSTRUCTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ornamental Plants, foliage and flowering plants, evergreens, woody and herbaceous non-edible ornamentals and non-bearing plants of fruiting species in landscaped areas around industrial, residential and commercial buildings, non-crop, and, for treatment of plants intended for aesthetic purposes in interior gardens and plant stands.</td>
<td>Ants</td>
<td>4 to 8 fl. oz. per 100 gallons – or broadcast 0.9 to 1.6 fl. oz. per 10,000 sq. ft.</td>
<td>Apply sufficient volume of water to adequately cover foliage. Use higher rate for moderate to high infestations. Direct application to blooming may cause burning of petals. Marginal leaf burn may occur on Salvia, Dierfibbonchias and Pteris Fern. For control of Coneworms, Nontoxic Pine Tip Moth and Seed Bugs in evergreens: Begin application when adults appear. Repeat applications may be made on 4 to 7 day intervals as needed. To control Webbing Coneworms make first application just prior to peak pollen flight. To control other Coneworms and Seed Bugs, make application 10 days following flowering closure. Mix 8 ounces in 100 gallons of water and apply 5 to 10 gallons of spray per tree.</td>
</tr>
<tr>
<td>Ornamental Trees</td>
<td>Clearwing Moth</td>
<td>1 to 2 qts. per 100 gallons</td>
<td>Apply to the lower branches and trunks prior to adult emergence. Adult emergence varies according to pest species, host tree, environmental conditions and geographic location. Through control of bark is required for control.</td>
</tr>
<tr>
<td></td>
<td>Bark Beetles</td>
<td>2 to 5 qts. per 100 gallons</td>
<td>Apply using 4 to 25 gallons of spray volume. For severe infestation, it is permissible to use 4 oz. to 4 gallons per 750 square feet.</td>
</tr>
<tr>
<td></td>
<td>Coleopteran Borers</td>
<td>2 to 5 qts. per 100 gallons</td>
<td>For maximum residual control of the above listed pests</td>
</tr>
</tbody>
</table>

Application Rates for Lawns

<table>
<thead>
<tr>
<th>PLANT</th>
<th>PEST</th>
<th>TREATMENT RATE</th>
<th>SPECIFIC APPLICATION INSTRUCTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lawns around residential, commercial, institutional, and public areas</td>
<td>Ants</td>
<td>0.4 to 0.8 fl. oz. per 1,000 sq. ft.</td>
<td>Use 4 to 25 gallons of spray volume. For severe infestation, it is permissible to use 4 oz. to 4 gallons per 750 square feet.</td>
</tr>
<tr>
<td></td>
<td>Moth Borer</td>
<td>2 to 5 qts. per 100 gallons</td>
<td>To control Webbing Coneworms make first application just prior to peak pollen flight. To control other Coneworms and Seed Bugs, make application 10 days following flowering closure. Mix 8 ounces in 100 gallons of water and apply 5 to 10 gallons of spray per tree.</td>
</tr>
<tr>
<td></td>
<td>Darkling Beetle</td>
<td>0.2 to 0.8 fluid ounce of Tengard SFR per 1,000 square feet.</td>
<td>For control of Carpet Beetles, evenly apply the spray to rugs, cars, panels, and baseboards and edges of carpeting, under carpeting, and furniture in closets, under beds, and wherever else insects are seen or suspected. Avoid wetting or soaking. For the control of Brown Dog Ticks, evenly apply the spray to infested areas, such as pet beds and resting quarters, nearby cracks and crevices, along baseboards, below sinks and around plumbing and other utility installations. Ant infested wood may be drilled and injected with Tengard SFR. As a fog or mist – fill area with mist. Apply while the air is still and avoid wetting foliage. Spray crevices of roost poles, cracks in walls and crevices in nest boxes.</td>
</tr>
</tbody>
</table>

Common Indoor Insect Pests Controlled by Tengard SFR

<table>
<thead>
<tr>
<th>PEST</th>
<th>SPECIAL APPLICATION INSTRUCTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fleas</td>
<td>Prior to treatment, carpets and furniture should be vacuumed thoroughly and vacuum cleaner bag discarded in an outdoor trash container. Evenly apply a broadcast spray at a rate of 1 gallon per 800 to 1,000 square feet to infested areas such as crawlspaces, rugs, carpets, pet beds and other pet resting areas. Avoid wetting or soaking. For crawlspace applications, the applicator must wear a respirator recommended by NIOSH for filtering spray mists and organic vapors. When treating upholstered furniture take care to treat between and under cushions. Pay particular attention to areas which are frequently occupied by pets. Old pet bedding should be replaced with clean, fresh bedding after treatment. To control the source of flea infestations, pets inhabiting the treated premises should be treated with a flea-control product registered for application to animals.</td>
</tr>
<tr>
<td>Ants (including Carpenter Ants, Fire Ants)</td>
<td>Apply to cracks and crevices, as a pinstream, as a fine/ coarse, low pressure spray, spot application or with a paintbrush. Treat where pests are found or normally occur, such as cracks and crevices in walls, and in and around kitchen cabinets and drawers, along baseboards, beneath sinks and around plumbing and other utility installations. Ant infested wood may be drilled and injected with Tengard SFR. Do not use in service areas while food is exposed or handling. Use higher rate for moderate to high infestations. Use 4 oz. to 4 gallons per 750 square feet. Do not use in milk rooms.</td>
</tr>
<tr>
<td>Bed Bugs</td>
<td>Apply using 4 to 25 gallons of spray volume. For severe infestation, it is permissible to use 4 oz. to 4 gallons per 750 square feet. Do not use in milk rooms.</td>
</tr>
<tr>
<td>Ticks</td>
<td>Apply to cracks and crevices, as a pinstream, as a fine/ coarse, low pressure spray, spot application or with a paintbrush. Treat where pests are found or normally occur, such as cracks and crevices in walls, and in and around kitchen cabinets and drawers, along baseboards, beneath sinks and around plumbing and other utility installations. Ant infested wood may be drilled and injected with Tengard SFR. Do not use in service areas while food is exposed or handling. Use higher rate for moderate to high infestations. Use 4 oz. to 4 gallons per 750 square feet. Do not use in milk rooms.</td>
</tr>
</tbody>
</table>

Application Rates for Lawns

<table>
<thead>
<tr>
<th>PLANT</th>
<th>PEST</th>
<th>TREATMENT RATE</th>
<th>SPECIFIC APPLICATION INSTRUCTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lawns around residential, commercial, institutional, and public areas</td>
<td>Ants</td>
<td>0.4 to 0.8 fl. oz. per 1,000 sq. ft.</td>
<td>Use 4 to 25 gallons of spray volume. For severe infestation, it is permissible to use 4 oz. to 4 gallons per 750 square feet.</td>
</tr>
<tr>
<td></td>
<td>Mole Crickets</td>
<td>0.2 to 0.8 fluid ounce of Tengard SFR per 1,000 square feet.</td>
<td>For control of Carpet Beetles, evenly apply the spray to rugs, cars, panels, and baseboards and edges of carpeting, under carpeting, and furniture in closets, under beds, and wherever else insects are seen or suspected. Avoid wetting or soaking. For the control of Brown Dog Ticks, evenly apply the spray to infested areas, such as pet beds and resting quarters, nearby cracks and crevices, along baseboards, below sinks and around plumbing and other utility installations. Ant infested wood may be drilled and injected with Tengard SFR. As a fog or mist – fill area with mist. Apply while the air is still and avoid wetting foliage. Spray crevices of roost poles, cracks in walls and crevices in nest boxes.</td>
</tr>
</tbody>
</table>

As a Surface or Space Spray – Pest Management

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>PEST</th>
<th>DILUTE</th>
<th>APPLICATION RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diaries, barns, feedlots, stables, poultry houses, animal houses, animal hospitals, pens and kennels, outside meat processing premises</td>
<td>Bees (such as Darkling Beetle)</td>
<td>House Flies Lesser Mealworm Stable Flies and other scavenger breeding insects. Also aids in the reduction of Cockroaches, Mosquitoes and Spiders.</td>
<td>Overhead space spraying system – 4 ft. to 10 gallons of mineral oil</td>
</tr>
<tr>
<td>Stable Flies</td>
<td>As a spray – 4 fl. oz. to 12.5 gallons of water</td>
<td>As a fog or mist – 1.5 to 2.0 fl. oz. to 1 gallon water</td>
<td>For control of Ants, Fire Ants</td>
</tr>
<tr>
<td>Pantry Pests</td>
<td>As a spray – 4 fl. oz. to 12.5 gallons of water</td>
<td>As a fog or mist – 1.5 to 2.0 fl. oz. to 1 gallon water</td>
<td>For control of Ants, Fire Ants</td>
</tr>
<tr>
<td>Centipedes</td>
<td>As a spray – 4 fl. oz. to 12.5 gallons of water</td>
<td>As a fog or mist – 1.5 to 2.0 fl. oz. to 1 gallon water</td>
<td>For control of Ants, Fire Ants</td>
</tr>
<tr>
<td>Earwigs</td>
<td>As a spray – 4 fl. oz. to 12.5 gallons of water</td>
<td>As a fog or mist – 1.5 to 2.0 fl. oz. to 1 gallon water</td>
<td>For control of Ants, Fire Ants</td>
</tr>
<tr>
<td>Brown Dog Ticks</td>
<td>As a spray – 4 fl. oz. to 12.5 gallons of water</td>
<td>As a fog or mist – 1.5 to 2.0 fl. oz. to 1 gallon water</td>
<td>For control of Ants, Fire Ants</td>
</tr>
</tbody>
</table>

Indoor Applications

Pest Control Indoors (Non-Food/Feed Areas): Inside residential homes and the non-food/feed areas of commercial establishments, do not use in food/garage areas, lobbies, floors (no sewers), entries and vestibules, offices, locker rooms, machine rooms, garages, mop closets, packaged goods storage areas and other non-food/food areas of Food Handling Establishments. Use Tengard SFR to control pests listed in the following table by application of a 0.5% emulsion. Do not use in food/feed areas of food/feed handling establishments, restaurants or other areas where food/feed is commercially prepared or processed. Do not use in areas while food is exposed or on or in operation. Serving areas are areas where prepared foods are served such as dining rooms, but excluding areas where foods may be prepared or held. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed. Not for use in Federally Inspected Meat and Poultry Plants. Avoid contamination of feed and water. Do not apply dilutions for premise spray directly to livestock or poultry.
Livestock Spray

Consult a veterinarian before using this product on medicated, debilitated, aged, pregnant or nursing animals. Do not use on dogs under twelve (12) weeks old. Consult a veterinarian before using this product on medicated, debilitated, aged, pregnant or nursing animals. Sensitivities may occur after using any pesticide product on pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately. Avoid contact with face, eyes, and genitalia. Repeat applications every 2 weeks, if necessary.

ANIMALS | PEST | DILUTE & USE | APPLICATION RATE |
--- | --- | --- | --- |
Lactating and non-lactating dairy cattle and goats, beef cattle and sheep | Horin Flies only | 4 fl. oz. to 50 gallons water (treat 200 head) | 1 quart of coarse spray per animal. |
Black Flies | Deer Flies | 4 fl. oz. to 25 gallons water (treat 50-100 heads) | 0.05% AI. | High pressure spray. |
Face Flies | Horn Flies Horse Flies House Flies Lice | 4 fl. oz. to 25 gallons water (treat 40-80 head) | 0.05% AI. | Low pressure spray, hand pump sprayers. |
Ear Ticks | Face Flies Lice Stable Flies | 4 fl. oz. to 10 gallons diesel oil or suitable mineral oil | 0.125% AI. | Backrubber, self oiler. |
Poultry | Lice Northern Fowl Mites | 1 to 4 fl. oz. to 3/4 gallons water (treat 3.75 birds) | 0.08 to 0.33% AI. | High pressure sprays. |
Swine (allow 5 days between last treatment and slaughter) | Lice Mange | 4 fl. oz. to 25 gallons water (treats 50-100 heads) | 0.002% AI. | Spary or dip. |
Horses | Black Flies Eye Gnats Face Flies Horn Flies Horse Flies Lice | 1/4 fl. oz. to 1 pt. water, 0.0262% AI. | Low pressure spray. |
Face Flies Stable Flies | 1/4 fl. oz. to 1 pt. water, 0.0262% AI. | Low pressure spray. |
| 1/4 fl. oz. to 20 gallons water, 0.0025% AI. | Dip wash. |
| 1/4 fl. oz. to 1 pt. water, 0.0262% AI. | Spot treat back, face, legs, tail and ears. |
| 1/4 fl. oz. to 1 pt. water, 0.0262% AI. | Spot treat back, face, legs, tail and ears. |

Applications for Fruit and Nut Trees Around Residential Sites Only

Apply the appropriate amount of Tengard SFR (see table below) in 100 gallons of water per acre (1 gallon per 436 square feet). Tengard SFR may be diluted and applied in greater volumes of water provided that the maximum application rates listed below are not exceeded on a per acre basis. For example: when attempting to control Navel Orangeworm on almonds using an application volume of 200 gallons per acre (2 gallons per 436 square feet), the maximum legal dilution of Tengard SFR is 8 fluid ounces per 100 gallons (1/2 teaspoon per gallon).

**Application Rates for Fruit and Nut Trees Around Residential Sites Only**

<table>
<thead>
<tr>
<th>TREE</th>
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<th>RATE</th>
<th>CROP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Almond</td>
<td>Navel Orangeworm Peach Twig Borer</td>
<td>6 to 16 fl. oz. per 100 gal./A or 1/2 to 1 tsp. per 1 gal./436 sq. ft.</td>
<td>Do not harvest nuts within 7 days after application. Do not apply more than 32 fluid ounces per acre during hull split. Do not apply more than 80 fluid ounces per acre per year.</td>
</tr>
<tr>
<td>Apples</td>
<td>Green Fruitworm Oblique Banded Leafroller Plum Curculio Redband Leafroller</td>
<td>4 to 8 fl. oz. per 100 gal./A or 1/4 to 1 tsp. per 1 gal./436 sq. ft.</td>
<td>Do not apply more than 24 fluid ounces per acre per year.</td>
</tr>
</tbody>
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Pesticide Storage

Store at temperatures above 40°F (5°C). Shake container well before using. If crystals form, warm to room temperature by placing container in a room at ambient temperature (70°F or 21°C). Pesticide Storage

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ATTENTION
Do not apply to sources of electricity.
Do not allow people or pets on treated surfaces, such as carpets until the spray has dried.
Do not use concentrate or emulsion in fogging equipment.
Firewood is not to be treated.
Use only in well ventilated areas.
During any application to overhead areas of structure, cover surfaces below with plastic sheeting or similar material (except where exempt).
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 apply this product to any rooms while occupied by patients, the elderly or infirm.
Do not apply when occupants are present in the immediate area in institutions such as libraries, sport facilities, etc.
Do not apply to classrooms when in use.
Do not touch treated surface until dry.
Dealers Must Sell in Original Packages Only.

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READ BEFORE USING PRODUCT

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