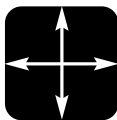


Tengard[®] Perimeter Insecticide



For use by commercial applicators as an insecticide on ornamentals grown in greenhouse and 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, and for use on buildings/structures.

ACTIVE INGREDIENT

Permethrin*	36.8%
OTHER INGREDIENTS**	63.2%
TOTAL	100.0%

*cis/trans ratio: Max. 42% (+) cis and min. 58% (+) trans

**Contains petroleum distillates.

Contains 3.2 pounds permethrin per gallon as an emulsifiable concentrate.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID:

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

IF SWALLOWED	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300

NOTE TO PHYSICIAN: Contains petroleum distillates – vomiting may cause aspiration pneumonia.

NOTICE: Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions and Storage and Disposal instructions inside booklet. If the Conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase.

United Phosphorus Inc.
423 Riverview Plaza
Trenton, NJ 08611

EPA Reg. No. 70506-6
EPA Est. No. 53883-TX-002

PRODUCED IN THE U.S.A. OF U.S. AND FOREIGN MATERIALS

PRECAUTIONARY STATEMENTS.

Hazards to Humans & Domestic Animals.

CAUTION: Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not allow people or pets on treated surfaces until the spray has dried. Do not touch treated surfaces until the spray has dried.

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 parts of plants if bees may forage on the plants during this time period. The 3 day limitation does not apply if the applicator operates 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.

Personal Protection Equipment (PPE)

All pesticide handlers (mixers, loaders, and applicators) must wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves. After the product is diluted in accordance with label directions for use, and/or when mixing and loading using a closed spray tank transfer system such as U-Turn, or an in-line injector system, shirt, pants, socks, shoes, and waterproof gloves are sufficient. In addition: all pesticide handlers must wear a respiratory protection device approved by the Mine Safety and Health Administration (MSHA)/National Institute for Occupational Safety and Health (NIOSH) such as TC-23C, TC-21C, TC-19C, TC-13F, and TC-14G when working in a non-ventilated space; all pesticide handlers must wear protective eyewear when working in a non-ventilated space.

Agricultural 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 statement on this label about personal protective equipment (PPE). The requirements in this box only apply to uses on this product that are covered by Worker Protection Standard.

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.

Do not enter or allow worker entry to 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 over long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as barrier laminate or butyl rubber.
- Shoes plus socks.

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 Standard 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.

Do not touch treated surfaces until the spray has dried.

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.

GENERAL USE INFORMATION

IMPORTANT

Tengard is toxic to fish. Exercise care when making applications near ponds, lakes, streams, reservoirs and other aquatic environments where fish are present.

Tengard may also be used as a broadcast or spot application in crawl spaces and indoors to carpeting, wood, tile, concrete or other structural building materials as a crack and crevice injection, or paint-on treatment. Consult tables for specific use instructions. Note: Crawlspace are considered inside of structure.

Tengard can be applied to interior plantscapes, and landscape ornamental gardens including parks, lawns and grounds.

For advice concerning current control practices with relation to specific local conditions, consult your local State Cooperative Extension or regulatory agencies.

Mixing Directions

Tengard is formulated as an emulsifiable concentrate (EC) formulation and is to be diluted with water and applied as an emulsion. When tank mixing as an emulsion with other products, observe all precautions and limitations on the labels of each product in the mixture.

Tengard can be tank-mixed with natural pyrethrin-containing products or Insect Growth Regulators (IGRs). Do not tank mix with dichlorvos (DDVP) or other fumigant products.

To produce an emulsion, mix Tengard with 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.

**Tengard
Rate/Volume Conversion Chart**

Desired Gallons of Finished Emulsion	Emulsion Concentration (Tengard + Water)		
	0.5%	1.0%	2.0%
1	1 2/3 fl. oz. + 126 1/3 fl. oz. water	3 1/3 fl. oz. + 124 2/3 fl. oz. water	6 2/3 fl. oz. + 121 1/3 fl. oz. water
5	8 1/3 fl. oz. + 4 gal., 119 2/3 fl. oz. water	16 2/3 fl. oz. + 4 gal., 111 1/3 fl. oz. water	33 1/3 fl. oz. + 4 gal., 94 2/3 fl. oz. water
10	16 2/3 fl. oz. + 9 gal., 111 1/3 fl. oz. water	33 1/3 fl. oz. + 9 gal., 94 2/3 fl. oz. water	66 2/3 fl. oz. + 9 gal., 61 1/3 fl. oz. water
19	0.25 gal. + 18.75 gal. water	0.5 gal. + 18.5 gal. water	1.0 gal. + 18 gal. water
38	0.50 gal. + 37.5 gal. water	1.0 gal. + 37 gal. water	2.0 gal. + 36 gal. water
58	0.75 gal. + 57.25 gal. water	1.5 gal. + 56.5 gal. water	3.0 gal. + 55 gal. water
96	1.25 gal. + 94.75 gal. water	2.5 gal. + 93.5 gal. water	5.0 gal. + 91 gal. water
192	2.5 gal. + 189.5 gal. water	5.0 gal. + 187 gal. water	10.0 gal. + 182 gal. water

Common Units of Measure:

- 1 pint = 16 fluid ounces (oz.)
- 1 gallon = 4 quarts = 8 pints = 128 oz.

Mix the insecticide use dilution in the following manner:

1. Fill tank 1/4 to 1/3 full.
2. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose.
3. Add appropriate amount of Tengard. (See Rate/Volume Conversion Chart)
4. Add remaining amount of water.
5. Let pump run and allow recirculation through the hose for 2 to 3 minutes.

Pest Control on Outside Surfaces and Around Buildings

Tengard has demonstrated excellent plant safety; however, not all cultivars have been tested. Before treating large numbers of plants of a particular cultivar, treat a few plants and observe prior to full scale application.

Use the higher rates for heavy pest infestations. Use sufficient volume to uniformly cover plant surface. Higher volumes should be used if arid or drought conditions exist. Repeat applications as necessary to maintain control.

Do not apply more than 2.0 lb. a.i./Acre/Year.

Spray Drift Precautions:

Tengard 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.

Chemigation

General Information

Apply this product only through the following types of sprinkler irrigation: center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact the equipment manufacturer, your local State Extension Service specialists, or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

A person knowledgeable of the chemigation system and responsible for its operation, or person under the supervision of the person responsible, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline, upstream from the point of pesticide introduction, to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

The system must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Tengard should be applied continuously for the duration of the water application. Tengard should be diluted in sufficient volume to ensure accurate application over the area to be treated. When using chemigation, a minimum of 0.5 inch per acre of irrigation water is recommended. Agitation generally is not required when a suitable carrier is used.

Broadcast Treatment for Control of Nuisance Pests: Apply using a 0.5% emulsion as a residual spray to outside surfaces of buildings including, but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, and refuse dumps.

Lawns: Tengard can be applied to lawns adjacent to or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, residential structures, commercial and institutional buildings, and other areas where pests congregate or have been seen. Repeat treatment as necessary to maintain effectiveness. See additional Directions for Use under Lawn and Ornamental Applications.

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 2 to 10 gallons of emulsion per 1000 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 rodding and then injecting 1 gallon of a 0.5% to 1.0% emulsion per 10 square feet or 2 gallons per 10 linear feet.

Pest Control in Crawlspace: Tengard may be applied at a rate of 0.5% in crawlspaces to control ants, fleas, roaches, scorpions, or other nuisance insects listed in the table below. Treat surfaces until wet. Keep children and pets off surface until dry.

Insect Pests Controlled by Tengard

PEST	SPECIFIC APPLICATION INSTRUCTIONS
Ants Ant Mounds ¹ Armyworm Bark Beetles ³ Bees Beetles Borers ³ Boxelder Bugs ² Carpenter Ants Carpenter Bees Centipedes Chinchbugs ⁴ Cockroaches Cockroaches (Asian) Crickets Earwigs Elm Leaf Beetles ² Fire Ants ¹ Fleas ⁴ Flies Firebrats Ground Beetles Gypsy Moths (adults & caterpillars) ² Millipedes Mole Crickets Pillbugs Scorpions Silverfish Sod Webworm Sowbugs Spiders Ticks (including Deer Tick and Western Black-legged Tick which may carry Lyme disease and Rocky Mountain Spotted Fever) ⁴ Wasps	<p>Application: Apply as a pinstream, as a fine/coarse, 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.</p> <p>¹Mound Drench Treatment: Apply 1-2 gallons of emulsion to each mound area by sprinkling the mound until it is wet and treat a 4 foot diameter circle around the mound. Use the higher volume for mounds larger than 12". For best results, apply in cool weather, such as in early morning or late evening hours, but not in the heat of the day.</p> <p>²Boxelder Bugs, Elm Leaf Beetles and Gypsy Moth Caterpillars: Thoroughly spray tree trunks, building siding or wherever pests congregate, but not to the point of runoff.</p> <p>³Borers and Bark Beetles: To prevent infestation of trees and woody ornamentals, thoroughly spray the bark but not to the point of runoff.</p> <p>⁴Lawns: Mix 0.4 – 0.8 fl. oz. of Tengard in 4 to 25 gallons of water per 1000 square feet. Use the higher rate 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.</p>

Underground Structures and Services

Posts, Poles, and Other Constructions: Previously installed poles and posts may be treated by sub-surface injection. Treat on all sides to create a continuous insecticidal barrier around the pole. Use 1 gallon of a 0.5% emulsion per foot of depth for poles and posts less than six inches in diameter. For larger poles, use 1.5 gallons of emulsion per foot of depth. Apply to a depth of 6 inches below the bottom of the wood. For larger diameter constructions, use 4 gallons of emulsion per 10 linear feet per foot of depth.

To control wood infesting insects, such as, ants, carpenter ants, wood infesting beetles (Old House Borer, Powder Post), bees, wasps, hornets and yellow-jackets in posts, poles and other wood constructions in and around structures, paint on, spot spray, or fan spray a 0.5% emulsion to voids and galleries in damaged wood and in spaces between wooden members of a structure and between wood and foundation where wood is vulnerable. Plastic sheeting must be placed immediately below overhead areas that are spot treated except for soil surfaces in crawlspaces. Application may be made to inaccessible areas by drilling, and then injecting emulsion with a crack and crevice injector into the damaged wood or void spaces. This type of application is not intended to be a substitute for soil treatment, mechanical alteration or fumigation to control extensive infestation of wood-infesting insects.

Control of Bees and Wasps Indoors: To control bees, wasps, hornets, and yellow jackets apply a 0.5% emulsion. Application should be made in the late evening when insects are at rest. Spray liberally into hiding and breeding places, especially under attic rafters, contacting as many insects as possible. Repeat as necessary.

Important: Do not apply emulsion until location of heat pipes, ducts, water and sewer lines and electrical conduits are known and identified. Care must be taken to avoid puncturing and injection into these structural elements. Do not apply to electrical fixtures, switches, or sockets.

Services: Tengard may be applied as a soil treatment to control ants from attacking underground services, such as, utility lines, pipes, cables, conduits and wires.

Apply 2 to 4 gallons of a 0.5% emulsion 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 to 4 gallons per 10 linear feet over the soil surface to complete the treatment barrier. Volume adjustments for non-porous soils can be made by using 1 to 2 gallons of a 1.0% emulsion per 10 linear feet of trench. Do not treat electrically active underground services.

Lawn and Ornamental Applications

General Application Instructions

Tengard 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 plantscapes. Not for use on plants being grown for commercial sale or on plants grown for seed production.

Tengard has demonstrated excellent plant safety; however, not all cultivars have been tested. Before treating large numbers of plants of a particular cultivar, treat a few plants and observe prior to full scale application.

Use the higher rates for heavy pest infestations. Use sufficient volume to uniformly cover plant surface. Higher volumes should be used if arid or drought conditions exist.

Do not apply more than 2.0 lb. a.i./Acre/Year.

Recommended Application Rates for Ornamental Plants and Trees

PLANT	PEST	TREATMENT RATE	SPECIFIC APPLICATION INSTRUCTIONS
Ornamental Plants, foliage and flowering plants, evergreens, woody and herbaceous non-edible ornamentals and non-bearing plants of fruiting species in	Ants	4 to 8 Fluid Ounces	Apply sufficient volume of water to adequately cover foliage.
	Aphids Bagworm Beet Armyworm Birch Leafminer Cabbage Looper	Per 100 gallons — or —	Use higher rate for moderate to high infestations. Direct application to blooms may cause

(continued)

Recommended Application Rates for Ornamental Plants and Trees (continued)

PLANT	PEST	TREATMENT RATE	SPECIFIC APPLICATION INSTRUCTIONS
landscaped areas around industrial, residential and commercial buildings, non-crop, and, for treatment of plants intended for aesthetic purposes in interior gardens and plantscapes. (continued)	Cankerworms Citrus Thrips Coneworm* Fungus Gnat Gypsy Moth Caterpillars Heliothis spp Japanese Beetles Lace Bug Leaf Feeding Caterpillars Leafhoppers Leafminers Leaf rollers Lygus Bugs Mealybugs Nantucket Pine Tip Moth* Pine Sawflies Plant Bugs Root Weevils (Adult) Seed bugs* Tent Caterpillars Webworms Whiteflies Zimmerman Pine Moth	Broadcast 0.9 to 1.8 Fluid Ounces Per 10,000 sq. ft.	browning of petals. Marginal leaf burn may occur on Salvia, Dieffenbachia and Pteris Fern. *For control of coneworms, Nantucket pine tip moth and seed bugs in evergreens: Begin application when adults appear. Repeat applications may be made on 5-7 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 30 days following flower closure. Mix 8 oz. in 100 gals. of water and apply 5 to 10 gals. of spray per tree.
	Ornamental Trees	Bark Beetles and Boring insects, (including, but not limited to: Ash Borer, Bronze Birch Borer, Rhododendron Borer, Elm Bark Beetles and Turpentine Beetles)	1 to 2 Quarts per 100 gallons

Recommended Application Rates for Ornamental Lawns

PLANT	PEST	TREATMENT RATE	SPECIFIC APPLICATION INSTRUCTIONS
Lawns around residential, commercial, industrial, institutional, and public areas	Ants Chinchbugs Pillbugs Fleas Mole Crickets Sod Webworm Ticks (including Deer Tick and Western Black-legged Tick which may carry Lyme disease and Rocky Mountain Spotted Fever) For additional pests controlled, consult the list of pests under Outside Surfaces and Around Buildings.	0.4 to 0.8 Fluid Ounces per 1000 Square Feet	Apply using 4 – 25 gallons of spray volume. Subsurface Injection: For flushing of mole crickets, subsurface injection may be used as a flush treatment in conjunction with an EPA-registered mole cricket control product. Inject 0.2 to 0.8 fluid ounces of Tengard per 1000 square feet. Observe precautions and restrictions on more restrictive label. Do not exceed label rates for these products. Do not mix products with label prohibitions against such mixing.

Indoor Applications

Pest Control Indoors (Non-Food/Feed Areas): Inside residential homes and the non-food/feed areas of commercial establishments including garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, garages, mop closets, packaged goods storage areas and other non-food/feed areas of Food Handling Establishments. Use Tengard 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 serving areas while food is exposed or facility is 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.

Control of Bees and Wasps Indoors: To control bees, wasps, hornets, and yellow jackets apply a 0.5% emulsion. Application should be made in the late evening when insects are at rest. Spray liberally into hiding and breeding places, especially under attic rafters, contacting as many insects as possible. Repeat as necessary.

Common Indoor Insect Pests Controlled by Tengard

PEST	SPECIFIC APPLICATION INSTRUCTIONS
Fleas	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 1600 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 frequented 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.
Ants (including Carpenter Ants, Fire Ants) Bat Bugs Bed Bugs Bees Boxelder Bugs Brown Dog Ticks Carpenter Bees Carpet Beetles Centipedes Cockroaches, (including Asian) Crickets Earwigs Firebrats Flies (such as Drain, Cluster, House)	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, in and around kitchen cabinets and drawers**, along baseboards, behind sinks and around plumbing and other utility installations. Ant infested wood may be drilled and injected with Tengard. **Remove all utensils, uncovered foodstuffs (or any having original package opened), shelf paper and other objects before spraying. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, foodstuff or other items. Any foodstuff accidentally contaminated with spray solution should be discarded. For the control of carpet beetles, evenly apply the spray to rugs, carpets, along baseboards and edges of carpeting, under carpeting, rugs and furniture, in closets, on shelving, and wherever else these 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, windows and doorframes, and areas of floor and floor coverings where these pests may be present. Avoid wetting or soaking. Old bedding should be removed and replaced with clean, fresh bedding after treatment.

(continued)

PEST	SPECIFIC APPLICATION INSTRUCTIONS
Ground Beetles Leaf Beetles Millipedes Pantry Pests** (such as: Flour Beetles, Indian Meal Moths, Larder Beetles) Pillbugs Scorpions Silverfish Sowbugs Spiders Ticks (including Deer Tick and Western Black-legged Tick which may carry Lyme disease and Rocky Mountain Spotted Fever) Wasps	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, in and around kitchen cabinets and drawers**, along baseboards, behind sinks and around plumbing and other utility installations. Ant infested wood may be drilled and injected with Tengard. **Remove all utensils, uncovered foodstuffs (or any having original package opened), shelf paper and other objects before spraying. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, foodstuff or other items. Any foodstuff accidentally contaminated with spray solution should be discarded. For the control of carpet beetles, evenly apply the spray to rugs, carpets, along baseboards and edges of carpeting, under carpeting, rugs and furniture, in closets, on shelving, and wherever else these 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, windows and doorframes, and areas of floor and floor coverings where these pests may be present. Avoid wetting or soaking. Old bedding should be removed and replaced with clean, fresh bedding after treatment.

Agricultural Structures

Tengard can be used for residual pest control in and on buildings and structures used for agricultural purposes and their immediate surroundings. Pests controlled are listed in the accompanying tables. Tengard may be applied as a space spray or directly to walls and ceilings as a residual surface treatment. When applied as a fog or fine mist, direct the spray toward the ceiling and upper corners until the area is filled with mist. For best results, close doors and windows before spraying and keep them closed for 10-15 minutes. Vacate the treated area and ventilate before reoccupying. Animals should be removed from area prior to treatment. Repeat treatment as necessary. The use of any residual fly spray should be supplemented with proper manure management and general sanitation to reduce or eliminate fly breeding areas.

As a surface or space spray – Livestock Premises

APPLICATION	PEST	DILUTE	APPLICATION RATE
Dairies, barns, feedlots, stables, poultry houses, swine and livestock houses, animal hospitals, pens and kennels, outside meat processing premises	Lesser mealworm, house flies, stable flies, beetles (such as Darkling Beetle) and other manure breeding insects.	As a spray – 4 fl. oz. to 12.5 gallons water	Spray surfaces until wet or 1 gallon per 750 square feet. (Do not use in milk rooms.)
	Also aids in the reduction of cockroaches, mosquitoes and spiders.	As a fog or mist – 1.5 to 2.0 fl. oz. to 1 gallon water	Apply until area is filled with mist, using 2 fluid ounces per 1,000 cubic feet of space. (Can be used in milk rooms.)
		Overhead space spray system – 4 fl. oz. to 10 gallons mineral oil	4 fl. oz. spray per 1000 cu. ft. of air space. (Do not use in milk rooms.)
	Temporary reduction of annoyance from pests mentioned above	Outdoor space spray – 1.5 fl. oz. to 1 gallon water	Fill area with mist. Apply while the air is still and avoid wetting foliage.
	Bedbugs and chicken mites	As a spray – 4 fl. oz. to 10 gallons water. For severe infestation, it is permissible to use 4 fl. oz. to 4 gallons	Spray crevices of roost poles, cracks in walls and cracks in nest and nest boxes.
Ticks, including the deer tick, fleas		Indoor spray – 3 fl. oz. to 2 gallons water	Treat around windows, doors, porches, screens, eaves, patios, garages, under stairways and in crawl spaces where these pests may occur. Apply until surface is wet (approx. 1 gallon per 750-1000 sq. ft.)
		Outdoor spray – 4 fl. oz. to 100 gallons water. For longer residual, use up to 8 fl. oz. to 100 gallons water	Use enough finished spray to penetrate foliage, usually 50-100 gallons per acre. To prevent infestation of buildings, treat a band of vegetation 6-10 feet adjacent to the structure.

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.

APPLICATION	PEST	DILUTE & USE	APPLICATION RATE
Lactating and non-lactating dairy cattle and goats, beef cattle and sheep	Horn flies only	4 fl. oz. to 50 gallons water (treats 200 head), 0.025% Active Ingredient (AI). High pressure spray.	1 qt. of coarse spray per animal.
	Horn flies, face flies, stable flies, house flies, horse flies, deer flies, black flies, eye gnats, mange mites, scabies mites, ticks, lice and sheep keds.	4 fl. oz. to 25 gallons water (treats 50-100 head), 0.05% AI. High pressure spray.	1-2 qt. of coarse spray per animal over whole body surface. For mange, scabies, ticks and lice, thoroughly wet animal. Repeat application 10-14 days for mites and lice.
	Horn flies, face flies, stable flies, ear ticks and lice	4 fl. oz. to 2 1/2 gallons water (treats 64-80 head), 0.05% AI. Low pressure spray (hand pump sprayer).	For fly and lice control, spray midline from face to tailhead to point of runoff (4-5 fl. oz.). For ear tick control, spray directly into each ear (1/2 fl. oz. each).
	Horn flies, face flies and stable flies	4 fl. oz. to 10 gallons diesel oil or suitable mineral oil, 0.125% AI. Backrubber, self oiler.	Keep rubbing device charged. Results improved by daily forced use.
Poultry	Northern fowl mites and lice	1-4 fl. oz. to 3 3/4 gallons water (treats 375 birds), 0.08-0.33% AI. High pressure spray.	1 gallon of coarse spray per 100 birds, paying particular attention to vent area.
Swine (allow 5 days between last treatment and slaughter)	Lice and mange	4 fl. oz. to 25 gallons water (treats 50-100 head), 0.05% AI. Sprayer or dip.	Thoroughly wet or dip animals including ears. For mange, spray pen floors, sides and bedding. Repeat at 14 days.

(continued)

APPLICATION	PEST	DILUTE & USE	APPLICATION RATE
Horses	Horn flies, face flies, stable flies, house flies, horse flies, black flies, eye gnats, mange mites, scabies mites, ticks, lice and fleas	1/4 fl. oz. to 1 pt. water, 0.6257% AI. Low pressure spray.	1-2 fl. oz. spray per animal. Spot treat back, face, legs, tail and ears.
		1/4 fl. oz. to 1 1/4 gallons water, 0.0626% AI. Dip wash.	Thoroughly wet animal to skin with sponge or rag. Let drip dry.

Companion Animals (Dogs Only)

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
Dogs (do not use on cats)	Fleas Ticks	1/4 fl. oz. to 1 pt. water, 0.6257% AI. Low pressure spray.	1-2 fl. oz. spray per animal. Spot treat back, face, legs, tail and ears.
		1/4 fl. oz. to 1 1/4 gallons water, 0.0626% AI. Dip wash.	Thoroughly wet animal to skin with sponge or rag. Let drip dry.
		4 fl. oz. to 20 gallons water, 0.0625% AI. Dip wash.	Make sure all areas are soaked to skin. Let drip dry on animal. Do not rinse off.

Applications for Fruit and Nut Trees Around Residential Sites Only

Apply the appropriate amount of Tengard (see table below) in 100 gallons of water per acre (1 gallon per 436 sq. ft.). Tengard 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 sq. ft.), the maximum legal dilution of Tengard is 8 fluid ounces per 100 gallons (1/2 teaspoon per gallon).

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

TREE	PEST	RECOMMENDED RATE	CROP
Almond	Navel Orangeworm	8 to 16 fl. oz. per 100 gal./A	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.
	Peach Twig Borer	1/2 to 1 tsp. per 1 gal./436 sq. ft.	
Apples	Green Fruitworm	4 to 8 fl. oz. per 100 gal./A	Do not apply more than 24 fluid ounces per acre per year.
	Oblique Banded Leafroller	1/4 to 1/2 tsp. per 1 gal./436 sq. ft.	
	Plum Curculio		
	Redbanded Leafroller		
	Rosy Apple Aphid		
Spotted Tentiform Leafminer			
Cherries	Tarnished Plant Bug	4 to 8 fl. oz. per 100 gal./A	Do not harvest fruit within 3 days after application. Do not make more than 4 applications per year. Do not make more than 3 applications after petal fall.
	White Apple Leafhopper		
	Green Fruitworm		
	Lesser Peachtree Borer		
	Plum Curculio		
Filberts	Redbanded Leafroller	8 to 16 fl. oz. per 100 gal./A	Do not harvest nuts within 14 days after application. Do not apply more than 64 fluid ounces per acre per year.
	Oblique Banded Leafroller		
Peaches	Rose Chafer	4 to 12 fl. oz. per 100 gal./A	Do not harvest fruit within 14 days after application. Do not apply more than 60 fluid ounces per acre per year.
	Tarnished Plant Bug		
	Green Fruitworm		
	Lesser Peachtree Borer		
	Oriental Fruit Moth		
	Peach Twig Borer		
Pears	Plum Curculio	8 to 16 fl. oz. per 100 gal./A	Apply only during dormant through delayed dormant growth periods. Do not apply more than 32 fluid ounces per acre per year.
	Rose Chafer		
Pistachios	Tarnished Plant Bug	8 to 16 fl. oz. per 100 gal./A	Nuts may be harvested on the day of application. Do not apply more than 32 fluid ounces per acre per year. Do not apply after 10 percent hull split.
	Stinkbugs		
	Leaf-footed Bugs		
	Navel Orangeworm		
	Peach Twig Borer		

1 fl. oz. = 2 tablespoons = 6 teaspoons

Do not use household utensils to measure Tengard.

Tengard is not for use on commercial fruit and nut trees.

STORAGE AND DISPOSAL

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 (21°C) until crystals dissolve.

Do not use or store near heat, open flame or hot surfaces.

Keep out of reach of children and animals.

Store in a dry place and avoid excess heat in storage. Store in original containers only.

Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. To confine spill, dike surrounding area or absorb with sand, cat litter, commercial clay or gel absorbents. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture 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.

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 use in aircraft cabins. For use in cargo areas only.

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.

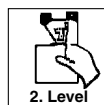
Do not touch treated surface until dry.

Dealers Should Sell in Original Packages Only.

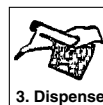
CONTAINER USE DIRECTIONS:



1. Tip



2. Level



3. Dispense

1. Remove the measuring chamber cap and induction seal. Replace 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.

IMPORTANT INFORMATION READ BEFORE USING PRODUCT

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

The Directions for Use of this product should 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, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus and Seller harmless for any claims relating to such factors.

United Phosphorus warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or United Phosphorus, and Buyer and User assume the risk of any such use. UNITED PHOSPHORUS MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall United Phosphorus or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF UNITED PHOSPHORUS AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT) SHALL BE, AT THE ELECTION OF UNITED PHOSPHORUS OR SELLER, THE REPLACEMENT OF THE PRODUCT, OR, COMPENSATION LIMITED TO DAMAGES NOT EXCEEDING THE FAIR MARKET PURCHASE PRICE, AND SHALL NOT INCLUDE INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

United Phosphorus and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by the duly authorized representative of United Phosphorus.

For non-emergency (e.g. current product information) call United Phosphorus, Inc. at 1-609-392-8200
or visit our website at www.upi-usa.com.

EPA Approval: 01-30-2002

Rev. Date: 10-24-2002

Tengard is a registered trademark of United Phosphorus, Inc.