

TEKKO[®] PRO



Insect Growth Regulator Concentrate

COMBINATION CHEMISTRY™ FROM CONTROL SOLUTIONS

- For indoor or outdoor use
- Effectively controls listed Fleas, Ticks, Flies, Mosquitoes, Gnats, Crickets, & Ants for up to 7 months
- For use on furniture and carpets
- For use in animal quarters, kennels and poultry houses

ACTIVE INGREDIENTS:

2-[1-Methyl-2-(4-phenoxyphenoxy)ethoxy] pyridine (Pyriproxyfen)	1.30%
Novaluron*	1.30%

OTHER INGREDIENTS** : 97.40%

TOTAL: 100.00%

*Contains 0.10 lbs of Novaluron and 0.10 lbs of pyriproxyfen per gallon.

KEEP OUT OF REACH OF CHILDREN
CAUTION

EPA Reg. No. 53883-335

EPA Est. No. 53883-TX-002

NET CONTENTS:
1 PINT



ADAMA

Manufactured by:

**Control
Solutions Inc.**

5903 Genoa-Red Bluff, Pasadena, TX 77507

A member of Adama
Consumer and Professional Solutions

EPA 112217

TEKKO[®] PRO



Insect Growth Regulator Concentrate COMBINATION CHEMISTRY™ FROM CONTROL SOLUTIONS

- Inhibits reinfestation by fleas for up to 7 months.
- Reduces egg production in houseflies and prevents development of larvae into adults.
- Inhibits reinfestation by listed cockroaches for up to 6 months.
- Effectively controls listed Fleas, Ticks, Flies, Mosquitoes, Gnats, Crickets, & Ants for up to 7 months
- Photostable for up to 14 days
- For use on Furniture and Carpets
- For use in Animal Quarters, Kennels and Poultry Houses
- Treats up to 6,000 square feet
- For indoor/outdoor use

ACTIVE INGREDIENTS:

2-[1-Methyl-2-(4-phenoxphenoxy) ethoxy] pyridine (Pyriproxyfen)	1.30%
Novaluron*	1.30%
OTHER INGREDIENTS**:	97.40%
TOTAL:	100.00%

*Contains 0.10 lbs. Novaluron and 0.10 lbs pyriproxyfen per gallon.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), you may contact SafetyCall[®] International at 1-866-897-8050, twenty-four (24) hours per day seven (7) days per week.

EPA Reg. No. 53883-335 EPA Est. No. 53883-TX-002

NET CONTENTS: 16 FL. OZ.



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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This product is 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 or equipment washwaters.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

Examples of specific areas where Tekko® Pro treatments may be made include, but are not limited to, the areas listed below:

Industrial Plants, Factories, Warehouses, Commercial Buildings, Condominiums, Apartments, Cabins, Day Care Centers, Mobile Homes, Homes, Hospitals, Hotels, Motels, Nursing Homes, Office Buildings, Other Public Buildings, Campsites, Gas Stations, Prisons, Rooms, Schools, Parks, Institutions, Jails, Sport Stadiums, Supermarkets, Taverns, Theaters, Morgues, Mortuaries, Crematoriums, Funeral Parlors, Mausoleums, Atriums, Attics, Bathrooms, Basements, Bedrooms, Porches, Closets, Draperies, Dressers, Kitchens, Porches Upholstered Furniture, Cabinets, Crawl Spaces, Carpet, Campers, Garbage Areas, Garbage Cans, Patios, Garages, Gazebos, Storage Areas, Floors, Furniture, Locker Rooms, Utility Room Indoor, Utility Room Outdoor, Washrooms;

Animal Quarters (enclosed premise treatment), Cat Living Quarters (enclosed premise treatment), Dog Houses, Dog Living Quarters, Dog Kennel Runs, Kennels, Pet Bedding, Pet Carriers, Pet Grooming Parlors, Pet Sleeping Areas, Pet Stores, Pet Quarters (enclosed premise treatment), Veterinaries, Zoos;

Candy Plants, Canneries, Bakeries, Breweries, Cereal Processing Facilities, Food Processing Plants, Food and Non-Food Warehouses, Cafeterias, Indoor Eating Establishments, Grocery Stores, Institutional Dining Areas, Flour Mills, Grain Storage Facilities, Outdoor Eating Establishments, Recreational Areas Outdoors, Restaurants, Dairies, Delicatessens;

Transportation Equipment (automobiles, boxcars, buses, boats, trucks, railcars, ship cargo holds);

Outdoor Areas and Surfaces Perimeters, including: Lawns and Around Foundation Walls.

DIRECTIONS FOR USE

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

Precautions:

- For best results, follow directions for specific use areas.
- Do not use this product in or on electrical equipment due to possibility of shock hazard.
- Do not excessively wet carpet, draperies and furniture.
- Always test in an inconspicuous area prior to use as some natural and synthetic fibers may be adversely affected by any liquid product.

Restrictions:

- When used in hospital rooms, convalescent hospital rooms, and nursing home rooms, remove patients prior to treatment.
- Ventilate treated rooms thoroughly for two (2) hours after treatment. Do not return patients to treated room until after ventilation.

**READ ALL DIRECTIONS
COMPLETELY BEFORE USE.****CONTROL OF FLEAS AND TICKS**

The active ingredients in Tekko® Pro are Novaluron and Pyriproxyfen, both are insect growth regulators. Insect growth hormones are naturally occurring in insects and Tekko® Pro prevents the adult pest from developing. These properties will gradually result in the reduction and eventual elimination of the pest population. Flea eggs and flea larvae that come into contact with Tekko® Pro will also not develop into adult fleas. Tekko® Pro works for up to 7 months on fleas by inhibiting the development of the immature stages of the flea and preventing them from reaching the biting adult stage. Tekko® Pro does not work on adult fleas and flea pupae that already exist.

USE RESTRICTIONS:

- Remove pets prior to spraying treatment area.
- After treatment, do not allow children and pets into treated areas until spray has dried.
- Do not allow children or pets to contact treated surfaces until spray has dried.
- Do not spray when wind conditions could create a mist to blow back to applicator.
- Do not apply this product in or around bodies of water.
- Do not soak young or flowering plants.

Use Sites	Application Method	Application Rate	Use Directions
General Surface Application	Low-pressure Sprayer	<u>Dilute spray solution:</u> 1 oz. per gal. of water <u>Spray rate:</u> 1 gal. per 1,500 ft ²	For use on carpets, furniture, pet sleeping areas & throw rugs, etc. Repeat treatment every 7 months as necessary. If needed, repeat treatments may be made 21 days after previous treatment.
Carpet Shampoo	Non-Heat Extracting Carpet Shampoo Equipment	<u>Dilute instructions on carpet shampoo:</u> 1 oz. per gal. (7.8 ml/L) of diluted shampoo <u>Application rate:</u> 1 gal. of diluted shampoo per 1,500 ft ² (139 m ²)	May also be used with a liquid, non-heat extracting carpet shampoo application. Allow carpet to completely dry and vacuum thoroughly.

Use Sites	Application Method	Application Rate	Use Directions
Kennels and Doghouses (building, resting areas, walls, floor, animal bedding & run areas)	Adjustable Hose-End Sprayer, Tank Type Sprayer, Sprinkling Can or Low Pressure Sprayer	<u>Dilute spray solution:</u> 1 oz. per gal. of water <u>Spray rate:</u> 1 gal. per 1,500 ft ²	<p>Treat pets and their bedding with EPA registered flea and tick control products, flea or flea and tick collar, pet powder, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick pet shampoo, in conjunction with this application as part of a complete flea control program.</p> <p>Repeat Tekko® Pro application at 7 month intervals or as needed, but not more than every 21 days. Follow use directions for other EPA registered products that are used in conjunction.</p>

Use Sites	Application Method	Application Rate	Use Directions
Animal Runs, Lawns, Under Trees, Ornamental Plants & Shrubs	Adjustable Hose-End Sprayer, Tank Type Sprayer or Sprinkling can	1.0 oz. in a sufficient amount of water (minimum 1 gal.) to cover 1,500 ft ² Spray rate: 1 tsp. per gal. will cover 250 ft ²	As a spot treatment for areas where pets normally frequent, but not limited to under trees, ornamental plants and shrubs. Application on soil surfaces will provide 21 days of IGR activity. If needed, repeat treatments with Tekko® Pro may be made 14 days after last treatment or, if heavy rainfall occurs, repeat as necessary. If large populations of adult fleas and ticks exist, treat the lawn area with an EPA registered adulticide lawn treatment product such as Cyzmic CS.

Note:

- If a high population of adult fleas or ticks is present or for immediate relief of adult flea and ticks, it may be necessary to use an adulticide. Tekko® Pro may be combined with an EPA registered adulticide. This mixture will also inhibit the development of the immature stages of the flea for up to 7 months. Follow all precautions and use directions on both products. Use at the application rate specified in the table below.
- Application of Tekko® Pro prior to the flea and tick season will aid in reducing developing populations. Apply to areas where pets and other animals are known to frequent and where previous infestations have been known to occur to prevent the emergence of adult fleas and ticks and also control stages of fleas that don't resemble adult fleas.
- Before treatment, vacuum carpets, draperies and upholstered furniture. Dispose of vacuum bag in an outdoor trash receptacle.
- This is just part of a complete flea control program. To further prevent the introduction of adult fleas, pets and their bedding should also be treated with an EPA registered flea and tick control product, flea or flea and tick collar, pet powder, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick pet shampoo, in conjunction with this application as part of a complete flea control program.
- In CA, only for use on Lone Star ticks.

Spray Mixing: Prepare a diluted spray solution by adding 1 fluid ounce Tekko® Pro per gallon of water. Partially fill the mixing container with water, add Tekko® Pro, agitate and fill to final volume. Do not allow spray mixture to stand overnight. Agitate before each use.

CONTROL OF COCKROACHES AND CRICKETS

Tekko® Pro will prevent nymphal cockroaches and crickets from developing into adults. After application, cockroaches with twisted wings will begin to appear indicating that they are unable to reproduce. When used as directed, cockroach and cricket populations will be eliminated. One treatment works for 6 months against hatching cockroaches and crickets.

USE RESTRICTIONS:

- Do not spray into the air; only spray onto the specific use sites.
- Do not apply when windy.
- Do not apply this product in or around bodies of water.
- This product cannot be mixed with any product containing a label prohibition against such mixing.

Use Sites	Application Method	Application Rate	Use Directions
<p>Indoor General Surface Application, including, Crack and Crevice</p>	<p>Low-pressure Sprayer</p>	<p><u>Dilute spray solution:</u> 2 ozs. per gal. of water <u>Spray rate:</u> 1 gal. per 1,000 ft²</p>	<p>Contact as many insects as possible. Thoroughly spray all areas where these pests may hide paying attention to places such as beneath sinks, behind and beneath stoves and refrigerators, cracks and crevices, around garbage cans, cabinets, along the outside of baseboards, door and window sills, door and window frames and floors, around and on drains, pipes, plumbing, behind bookcases, storage and other utility installation areas, infested furniture and the inside of cabinets and closets. Repeat treatment every 6 months as necessary</p>

Use Sites	Application Method	Application Rate	Use Directions
<p>Wall voids and other small structural void areas</p>	<p>ULV equipment, mechanical misting sprayers, aerosol generators, fog injection systems</p>	<p>Mix 1 fl. oz. of Tekko® Pro with 1 fl. oz. of petroleum distillate or 1 fl. oz. of water and agitate to assure a uniform mixture. The resulting 2 fl.ozs. of solution will then be used to treat 1,900 cubic feet of space.</p>	<p>Using an appropriate ULV spraying device, inject the aerosol spray directly into cracks and crevices to completely fill the wall, equipment and other small structural void areas. Follow the injection equipment manufacturer's recommendations for the proper set up and air pressures. Allow the air stream to push the material deep into the space. Ventilate area thoroughly before re-entry.</p>

Use Sites	Application Method	Application Rate	Use Directions
Outdoor Perimeter Treatments	Low Pressure Sprayer	2 ozs. in a sufficient amount of water (minimum of 1 gal.) to cover 1,000 ft ² in a band 2 to 4 ft wide adjacent to & around structure.	Apply at a height of 2 to 3 feet on the foundation where pests may be active or may find entrance. Apply spray around window frames, doors, garage doors, patios, decks, carports, shutters, around garbage areas, sill plate and other areas where cockroaches may congregate. Repeat at 6 month intervals.
<p>Note:</p> <ul style="list-style-type: none"> If a high population of adult cockroaches is present or for immediate relief of adult cockroaches, it may be necessary to use an adulticide. Tekko® Pro may be combined with an EPA registered adulticide. This mixture will also inhibit the development of the immature stages of the cockroach for up to 6 months. Follow all precautions and use directions on both products. Use at the application rate specified in the table below. 			

Spray Mixing: Prepare a diluted spray solution by adding 2 fluid ounces Tekko® Pro per gallon of water. Partially fill the mixing container with water, add Tekko® Pro, agitate and fill to the final volume. Agitate before each use. Do not allow spray mixture to stand overnight.

Tekko® Pro can be mixed with other EPA registered pesticides and used in accordance with the most restrictive of label limitations and precautions. No label dosage rates may be exceeded.

Tank Mixes: Make applications in accordance with those use precautions and label instructions that are consistent for each product. Prepare the tank mix using the label rate of adulticide and Tekko® Pro by adding the adulticide first and making sure it is well mixed and in suspension, then adding the correct amount of Tekko® Pro according to the label instructions below.

CONTROL OF STORED PRODUCT PESTS

(Including Indian Meal Moths, Rice Moths, Tobacco Moths, Red Flour Beetles, Confused Flour Beetles, Lesser Grain Borers, Merchant Grain Beetles, Saw-toothed Grain Beetles, Warehouse Beetles, Cigarette Beetles, and Dermestid Beetles)

Spray Mixing for Surface, Spot, Crack and Crevice Application: Prepare a diluted spray solution by adding 1.5 fluid ounces of Tekko® Pro per gallon of water. Partially fill the mixing container with water, add Tekko® Pro, agitate and fill to final volume. Agitate before each spray application.

Use Sites	Application Method	Application Rate	Use Directions
<p>General Surface Application, and Crack and Crevice in Food and Non-Food Areas</p>	<p>Pressurized spray system capable of delivering a pin-point or variable spray pattern</p> <p>Low-pressure Sprayer</p>	<p><u>Dilute spray solution:</u> 1.5 ozs. per gal. of water (11.7 ml/L)</p> <p><u>Spray rate:</u> 1 gal. per 1,500 ft² (27 ml/m²)</p>	<p>For treatment of food processing and food handling establishments and in food and nonfood storage warehouses repeat application in 90 days.</p> <p>(Places other than private residents in which food is held, processed, prepared, or served)</p> <p>Crack and Crevice applications may be made directly to cracks and crevices, baseboards, floors, ceilings, walls, expansion joints, molding, areas around water and sewer pipes, voids where pests can hide and similar areas. Spot treatments may also be made to storage areas, closets, around water pipes, doors and windows, behind and under refrigerators, cabinets, sinks, stoves and other equipment, shelves, drawers and similar areas.</p> <p>Contact as many insects as possible.</p>

Use Sites	Application Method	Application Rate	Use Directions
Fogging Appl.	ULV equipment, mechanical misting sprayers, aerosol generators, or thermal foggers	<p>Follow the equipment manufacturer's solution preparation instructions. Tekko® Pro may be diluted with water or petroleum distillate.</p> <p><u>Application rate:</u> 1.5 ozs. (44.3 ml) per 12,000 cubic feet (340 m³)</p>	<p>Close area to be treated and shut off all ventilation Systems. Apply the product in the air and direct fog or mist toward all areas that may harbor target pests. After treatment, leave the room closed for 30 minutes or longer as recommended by the equipment manufacturer or the labels of other products applied in tank mixing. Do not remain in treated area. Ventilate thoroughly before reentry.</p>

Food Handling Establishments

(Places other than private residences in which food is held, processed, prepared, or served):

Application is limited to space, general surface, spot, and/or crack and crevice treatment in food handling establishments where food and food products are held, prepared, processed and served. Space and general surface application may be used only when the facility is not in operation provided exposed food is covered or removed from the area being treated prior to application. Spot, and/or crack and crevice treatments may be used while the facility is in operation provided exposed food is covered or removed from the area being treated prior to application. Food contact surfaces must be thoroughly washed with an effective cleaning compound and rinsed with potable water after use of the product. Fogging applications are recommended for larger facilities including food and non-food warehouses.

Food Serving Areas: Tekko® Pro may be used in food areas of food handling establishments, restaurants, or other areas where foods are commercially prepared or served. Tekko® Pro may also be used in serving areas only when facility is not in operation or food is not exposed. Serving areas are areas where prepared foods are served, such as dining rooms. All food-processing surfaces and utensils must be covered during treatment or thoroughly washed before use. Food areas include areas for receiving, storage, packing (canning, bottling, wrapping,

boxing), preparing, edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Repeat application in 90 days.

Non-Food Areas: Tekko® Pro may be used to treat nonfood areas. Nonfood areas include areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling), walls and floors, under and between pallets, areas of machinery and equipment, mop and equipment closets, behind cabinets, under shelves and racks.

PREPARATION OF Adulicide and Tekko® Pro Combination:

Tekko® Pro can be mixed with other EPA registered pesticides and used in accordance with the most restrictive of label limitations and precautions. No label dosage rates may be exceeded.

Tank Mixes: Make applications in accordance with those use precautions and label instructions that are consistent for each product. Prepare the tank mix using the label rate of adulicide and Tekko® Pro by adding the adulicide first and making sure it is well mixed and in suspension, then adding the correct amount of Tekko® Pro according to the label instructions below.

Note: This product cannot be mixed with any product containing a label prohibition against such mixing.

CONTROL OF ANTS

Use Sites	Application Method	Application Rate	Use Directions
Interior General Surface Application	Low-pressure Sprayer or Similar Application	Application rate: 2 ozs. per gal. of water per 1,000 ft ²	Apply Tekko® Pro to interior areas of a building where ants are actively foraging. Repeat treatments may be made 14 days after previous treatment.
Perimeter or Around Foundation Walls	Low Pressure Sprayer or Similar Application	2 ozs. in a sufficient amount of water (minimum of 1 gal.) to cover 1,000 ft ²	Apply Tekko® Pro to exterior perimeter or around foundation walls where ants are actively foraging and in a band 6-10 feet wide adjacent to the foundation wall of the building. Repeat treatments may be made 14 days after previous treatment, or if heavy rainfall occurs.
<p>Note:</p> <ul style="list-style-type: none"> For immediate control of adult ants, Tekko® Pro may be used in a tank mix combination with an EPA registered adulticide insecticide, or as an alternating treatment with adulticide insecticide. 			

FOR CONTROL OF FLYING INSECT PESTS
(Such as Flies, Moths, Midges, Mosquitoes and Gnats)

Tekko® Pro may be used for the control of house flies, stable flies, moths, mosquitoes, nuisance flies (gnats, midges) and other similar flying pest insects such as those classified as Dipterous or Hymenopterous. Tekko® Pro causes a decrease in the number and hatching of eggs laid by treated adults. Fly larvae (maggots) treated with Tekko® Pro cannot develop into normal adults. The use of Tekko® Pro will result in a reduction in adult fly populations after 3-4 weeks, at the time when previously hatched adult flies have died naturally.

Tekko® Pro may be used for control of flying insect pests in, on and around residential, commercial, public, industrial and agricultural buildings. Tekko® Pro may be used to control nuisance flies, gnats, midges, and mosquitoes by application into moist breeding areas (potted plants, moist debris or litter) or into areas holding standing water such as gutters, drains, pools and fountains.

USE RESTRICTIONS:

- Do not treat birdcages or stock pens when animals are present.
- Do not make interior applications of Tekko® Pro in areas of facility where animals are present.
- Do not apply directly to any natural bodies of water such as ponds, lakes, streams, rivers, marshes, potholes, and estuaries.
- Do not allow animals back in treated areas of facility until treated areas have dried.
- Cover or remove exposed food, feed, water and watering equipment.

Use Sites	Application Method	Application Rate	Use Directions
Interior Applications to Residential, Commercial, Public, Industrial and Agricultural Buildings	General Surface (including Broadcast, Spot and Crack and Crevice)	1 oz. per gal. of water per 1,500 ft ² or 1,000 linear feet for crack and crevice	Treat all areas where flying insects may collect, rest or breed. Apply solution as a coarse, wetting spray to breeding and harborage sites. For drains, apply dilution into and around the drain and catch basin area. When possible, treat vertical surfaces surrounding breeding sites, where small flies tend to alight. If needed, repeat 14 days after previous treatment or if heavy rainfall.
Fly breeding sites such as drains, traps of sinks, bathtubs and in-floor drains	Foam Application	1 oz. per gallon of diluent To convert to foam, add foaming agent at the manufacturer's recommended rate.	Using a professional foam applicator, apply finished foam to areas of fly breeding sites such as drains, traps of sinks, bathtubs and in-floor drains. For best results, foam should be applied thoroughly ensuring all void areas and fly breeding material is treatment. Follow the requirements of the foam equipment manufacturer.

Use Sites	Application Method	Application Rate	Use Directions
<p>Exterior Applications to Residential, Commercial, Public, Industrial and Agricultural Buildings</p>	<p>General Surface (including Broadcast, Spot and Crack and Crevice)</p>	<p>1 oz. per gal. of water per 1,500 ft² or 1,000 linear feet for crack and crevice</p>	<p>Apply to outside surfaces of buildings, porches, patios, garages and other areas where these pests have been seen or found. To help prevent infestations of buildings by flying insects, treat soil, vegetation or other substrates in a band 6-10 feet wide adjacent to the building foundations, walls, around doors and windows, and overhead areas where these pests are active and may find entrance or harborage. For surface applications, thoroughly wet floors, walls, ceilings, doors, around windows, garbage and refuse areas. Apply to foliage and ornamental plants as well as into moist breeding areas such as potted plants, moist debris or litter, or into areas holding standing water such as gutters, drains, pools and fountains. Control will be enhanced when facilities are cleaned and interior applications are supplemented with exterior perimeter treatments.</p>

Use Sites	Application Method	Application Rate	Use Directions
Livestock, Poultry Housing and Pet Kennels (Interior and Exterior)	General Surface, Fogger/ULV, Crack and Crevice and Spray	1 oz. per gal. of water per 1,500 ft ²	<p>Treat all areas where flying insects may collect, rest or breed, including vertical walls, ceilings, pipes, conduit, stalls, stanchions, floors, and walkways. When Tekko® Pro is used alone, treatments can be extended to animal bedding, manure, and other potential areas where flying insects may breed.</p> <p>For surface applications, thoroughly wet floors, walls, ceilings, doors, around windows, garbage and refuse areas. When used as directed, Tekko® Pro will not harm beneficial insects in animal litter or bedding, such as predatory wasps. Control will be enhanced when facilities are cleaned and interior applications are supplemented with exterior perimeter treatments.</p> <p>If needed, repeat 14 days after previous treatment or if heavy rainfall occurs.</p>

Note:

- For knockdown and more rapid control of adult flying insect pests or to control an influx of flies from untreated areas, Tekko® Pro may be used in a tank mix combination with an EPA registered adulticide insecticide.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

PESTICIDE STORAGE: Store upright at room temperature. Avoid exposure to extreme temperatures. Keep this product in its tightly closed original container. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals. In case of spillage or leakages, soak up with an absorbent material such as sand, sawdust, earth, Fuller's earth, etc. Dispose of with chemical waste.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spilled bait, 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 HANDLING: If empty - Nonrefillable container. Do not reuse or refill this container. Offer empty container for recycling if available or puncture and dispose of container in a sanitary landfill, or by other procedures approved by State and local authorities.

If partly filled: Call your local solid waste agency for disposal instructions. Unless otherwise instructed, place in trash. Never pour unused product down the drain or on the ground.

STORAGE AND DISPOSAL (continued)

[Commercial Language]

For Bulk containers: (Refillable Container)

Refill this container with pesticides only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the re-filler.

To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or re-circulate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

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. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Control Solutions, Inc. or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Control Solutions, Inc. and Seller harmless for any claims relating to such factors.

Control Solutions, Inc. 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 Control Solutions, Inc., and Buyer and User assume the risk of any such use.

CONTROL SOLUTIONS, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

IT IS CONTROL SOLUTIONS INC., AND SELLERS INTENTION THAT only to the extent consistent with applicable law shall Control Solutions or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF CONTROL SOLUTIONS, INC., AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF CONTROL SOLUTIONS, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Control Solutions, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Control Solutions, Inc.

NOTES

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- Effectively controls listed Fleas, Ticks, Flies, Mosquitoes, Gnats, Crickets, & Ants for up to 7 months
- Photostable for up to 14 days
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- For use in Animal Quarters, Kennels and Poultry Houses
- Treats up to 6,000 square feet
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ACTIVE INGREDIENTS:

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OTHER INGREDIENTS**:	97.40%
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Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), you may contact SafetyCall® International at 1-866-897-8050, twenty-four (24) hours per day seven (7) days per week.

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TALAK™

7.9% F



When used as a Termiticide, Individuals/Firms must be licensed 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:	(% by weight)
Bifenthrin*	7.9%
OTHER INGREDIENTS:	92.1%
TOTAL:	100.0%

Contains 2/3 pound active ingredient per gallon.

* Cis isomers 97% minimum, trans isomers 3% maximum.

EPA Reg. No.: 91234-145

SPECIMEN

KEEP OUT OF REACH OF CHILDREN CAUTION

See below for additional Precautionary Statements.

FIRST AID
<p>If swallowed: ▪ Call a 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 15 - 20 minutes. ▪ Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing eye. ▪ Call a poison control center or doctor for treatment advice.</p>
HOT LINE NUMBER
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at 1-844-685-9173 for emergency medical treatment information.</p>
<p>Note to Physician - This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.</p>

**For Chemical Emergency: Spill, Leak, Fire, Exposure, or Accident,
Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)**



Manufactured for:
Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Caution - Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

All pesticide handlers (mixers, loaders, and applicators) must wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves. After the product is diluted in accordance with label directions for use, and/or when mixing and loading using a closed spray tank transfer system, or an in-line injector system, shirt, pants, socks, shoes, and waterproof gloves are sufficient. In addition, all pesticide handlers must wear a respiratory protection device¹ when working in a non-ventilated space. All pesticide handlers must wear protective eyewear when working in non-ventilated space or when applying termiticide by rodding or sub-slab injection.

¹Use one of the following Mine Safety and Health Administration (MSHA)/National Institute for Occupational Safety and Health (NIOSH) air purifying respirator types with approval number prefixes: TC-23C, TC-21C, TC-19C, TC-13F and TC-14G, or a 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.

Environmental Hazards

This pesticide is extremely toxic to fish and aquatic invertebrates. 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 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 to drift to blooming crops if bees are visiting the treatment area.

Physical and Chemical Hazards

Do not apply water-based dilutions of **Talak 7.9% F** to electrical conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of possible shock hazard.

DIRECTIONS FOR USE

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

RESTRICTIONS:

- Do not apply by air.
- Do not apply in greenhouses, 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 the treated area to the point of runoff.
- Do not make applications during rain.
- Do not apply directly to sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur, except as directed by this label.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack and crevice treatment. During application, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters.

- 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) Application 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 the 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.

Application equipment that delivers low volume treatments, such as Patriot Injector® or Actisol® applicators, may also be used to make crack and crevice, deep harborage, spot and general surface treatments of **Talak 7.9% F**.

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

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended only for aesthetic purposes or climatic modifications and being grown in interior plantscapes, ornamental gardens or parks, or lawns and grounds.

TERMITICIDE USES

Using this product in and around structures and building construction will prevent and control termite infestations.

To institute a barrier between the wood and the termites in the soil, the chemical dilution must be effectively dispersed in the soil. It is important to remove unnecessary materials that contain cellulose and wood from around foundation walls, crawl spaces (inside of structure), and porches, and fix damaged plumbing and construction grade in order to deny termite access to moisture.

To use this product effectively, it is important that the service technician be familiar with current termite control practices including trenching, rodding, sub-slab injection, low-pressure spray application, coarse fan spraying of soil surfaces, crack and crevice (void) injection, excavated soil treatment, and brush or spray applications to infested or susceptible wood. Using these techniques correctly is essential to prevent or control infestations by subterranean termite species of genera *Coptotermes*, *Heterotermes*, *Reticulitermes* and *Zootermopsis*. When determining what procedures to follow, the service technician should consider certain variables such as biology and behavior of the termite species, structure design, heating ventilation, and air conditioning (HVAC) systems, water table, soil type and compaction, grade conditions, and the location and type of domestic water supplies and utilities.

For information concerning the most up to date control practices in a given region or locale, consult the local resources for structural pest control, state cooperative extensions, and regulatory agencies.

SUBTERRANEAN TERMITE CONTROL

Important: The following precautions must be observed to avoid contamination of public and private water supplies:

- Use anti-backflow equipment or procedures to prevent siphonage of insecticide into water supplies.
- Do not contaminate cisterns, wells, or other water tanks by treating the soil beneath these structures.
- Do not treat soil that is water saturated or frozen.
- Do not treat soil where runoff may occur.
- Consult state and local specifications for recommended treatment practices in your area.
- If local or state specifications do not exist, consult the Federal Housing Administration Specifications (H.U.D.) guidance documents.

Note: For the purpose of this label, crawl spaces are defined as being inside of the structure.

Critical Areas: Points at which the foundation is penetrated or abuts another structure are Critical Areas. These include utility entry points, cracks and expansion joints, bath traps and adjacent structures such as stairs, patios and slab additions.

Structures with Wells/Cisterns Inside Foundations

Structures that contain wells or cisterns within the foundation of a structure can only be treated using the following techniques:

1. Do not treat soil while it is beneath or within the foundation or along the exterior perimeter of a structure that contains a well or cistern. The treated backfill method must be used if soil is removed and treated outside/away from the foundation. The treated backfill technique is described as follows:
 - a) Trench and remove soil to be treated onto heavy plastic sheeting or similar material or into a wheelbarrow.
 - b) Treat the soil at the rate of 4 gallons of dilute 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 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 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 recommendations listed below prior to making an application.

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

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

Before these techniques are used close to cisterns, wells, or other bodies of water, seek advice from local, state or federal agencies for information on treatment practices that are acceptable in your area.

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

Mixing Directions: Mix the termiticide 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 **Talak 7.9% F**.
4. Add remaining amount of water.
5. Let pump run and allow recirculation through the hose for 2 to 3 minutes.

Talak 7.9% F may also be combined into full tanks of water. If combined into full tanks of water, allow sufficient time for agitation and/or recirculation to ensure consistency or dilution.

To prepare a 0.06% water dilution, ready to use, dilute 3 quarts of **Talak 7.9% F** with 99.25 gallons of water.

Mixing: Using the chart below, determine the volume of **Talak 7.9% F** and water to produce the desired volume of finished dilution.

Amount of Talak 7.9% F (Gallons Except Where Noted)			
Emulsion Concentrate	Amount of Talak 7.9% F	Amount of Water	Desired Gallons of Finished Emulsion
0.06%	1 oz.	127 oz.	1
	5 oz.	4.9	5
	10 oz.	9.9	10
	25 oz.	24.8	25
	1.5 qt.	49.6	50
	2.25 qt.	74.4	75
	3 qt.	99.25	100
	4.5 qt.	148.8	150
0.12%*	6 qt.	198.5	200
	2 oz.	126 oz.	1
	10 oz.	4.9	5
	19.5 oz.	9.8	10
	1.5 qt.	24.6	25
	3 qt.	49.2	50
	4.5 qt.	73.8	75
	6 qt.	98.5	100
9 qt.	147.7	150	
3	197	200	
*When treating for termites, use this rate only in conjunction with volume adjustments, foam applications or underground services applications as listed below.			
Common units of measure: 1 pint = 2 cups = 16 fluid ounces (oz.) 1 quart = 2 pints = 4 cups = 32 fluid ounces (oz.)			

Application Volume: To provide maximum control and protection against termite infestation apply the specified volume of the finished water emulsion and active ingredient as set forth in the **DIRECTIONS FOR USE** section of this label. If soil will not accept the labeled application volume, the volume may be reduced provided there is a corresponding increase in concentration so that the amount of active ingredient applied to the soil remains the same.

Note: Large reductions of application volume reduce the ability to obtain a continuous barrier. Variance is allowed when volume and concentration are consistent with the label directed rates and a continuous barrier can still be achieved.

The volume of the 0.12% emulsion may be reduced by 1/2 the labeled volume where desirable for pre- and post-construction applications. When the volume is reduced, the hole spacing for subslab injection and soil rodding may also need to be adjusted to account for lower volume dispersal of the termiticide in the soil. Consult the following **Volume Adjustment Chart** for details.

Volume Adjustment Chart		
Rate (% Emulsion)	0.06%	0.12%
Volume allowed		
Horizontal (gallons emulsion/10 ft ²)	1.0 gallons	0.5 gallons
Vertical (gallons emulsion/10 linear ft.)	4.0 gallons	2.0 gallons

After Treatment: All holes in commonly occupied areas into which **Talak 7.9% F** has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material.

Foam Applications

Talak 7.9% F emulsion, from 0.06 to 0.12% may be converted to foam with 2X - 40X expansion characteristics and used to control or prevent termite infestations.

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

Foam and liquid application must be consistent with volume and active ingredient instructions in order to insure proper application has been made. The volume and amount of active ingredient are essential to an effective treatment. At least 75% of the labeled liquid emulsion 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 Crawlspaces to Prevent or Control Termites

When making applications, **Talak 7.9% F** foam can be used alone or in combination with liquid emulsion. Whether applied as a emulsion, foam, or some of both, the equivalent of at least 4 gallons of 0.06% emulsion (4 ounces of **Talak 7.9% F** concentrate) per 10 linear feet must be applied for vertical barrier, or at least 1 gallon of 0.06% emulsion (1 ounce of **Talak 7.9% F** concentrate) per 10 square feet must be applied for a horizontal barrier. For a foam only application, apply **Talak 7.9% F** concentrate in sufficient concentration and volume to equal 4 ounces of concentrate per 10 linear feet or 1 ounce of concentrate per 10 square feet. For example, 2 gallons of 0.12% emulsion converted to foam and used to cover 10 linear feet is the equivalent of 4 gallons of 0.06% emulsion per 10 linear feet.

Sand Barrier Installation and Treatment

As long as termites have access to soil that has not been treated and can avoid soil that has been treated with **Talak 7.9% F**, they can build mud tubes over surfaces that have been treated. Cracks and spaces should be filled with play box or builder's sand and then treated in the same manner as soil. Follow the rates listed in the **Talak 7.9% F** label.

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

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

Application in Conjunction with Termite Baits

As part of an IPM (integrated pest management) program for termite control, **Talak 7.9% F** may be applied to areas of the structure with known or suspected infestations such as plumbing, utility entry sites, bath traps, expansion joints, and foundation cracks at a rate of 0.06% as a spot treatment or complete barrier treatment. Applications may be made as described in the **Post-construction Subterranean Termite Treatment** section of this label.

Pre-construction Subterranean Termite Treatment

Use Precautions:

- The treatment site must be covered prior to a rain event in order to prevent run-off of the pesticide into non-target areas.
- The applicator must either cover the soil him/herself or provide written notification of the above requirement to the contractor on site and to the person commissioning the application (if different than the contractor). If notice is provided to the contractor or 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.

Use Restrictions:

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

To produce effective pre-construction subterranean termite control, create vertical and/or horizontal chemically treated zones of protection using 0.06% emulsion of **Talak 7.9% F**. Follow the current edition of the Housing and Urban Development Minimum Property Standards to assure that F.H.A. termite-proofing requirements are met.

Horizontal Barriers

Establish a horizontal chemical barrier wherever treated soil will be covered by a slab, such as basement floors, carports, entrance platforms, footing trenches, and slab floors and the soil below stairs and crawl spaces.

Apply 1 gallon of 0.06% emulsion per 10 square feet, or use 1 fluid ounce of **Talak 7.9% F** per 10 square feet in sufficient water (no less than 1/2 gallon or more than 2 gallons) to provide a uniform treated barrier for the area being treated.

If the fill is coarse aggregate, such as washed gravel, a sufficient volume of emulsion must be applied to allow it to reach the soil beneath for coarse fill.

Make applications with a low-pressure spray (less than 50 p.s.i.) using a coarse spray nozzle. If foundation walls have not been installed around the treated soil and the slab will not be poured the same day as treatment, the treated soil must be covered with a water-proof barrier. Polyethylene sheeting may be used for this purpose.

Vertical Barriers

Vertical barriers must be established in Critical Areas such as along the inside of foundation walls, plumbing, bath traps, utility services and other features that will penetrate the slab.

Using a 0.06% emulsion, apply 4 gallons of emulsion per 10 linear feet per foot of depth or 4 fluid ounces of **Talak 7.9% F** per 10 linear feet per foot of depth from grade level to the top of the footing in sufficient water (not less than 2 gallons or more than 8 gallons) to provide a uniform treated barrier.

When trenching and rodding into the trench, or trenching, ensure that the emulsion reaches the top of the footing. Space rod holes so that a continuous treated barrier is created, but not exceeding 12 inches apart. Avoid soil wash-out around the footing. Trenches should be about 6 inches wide and 6 inches deep. Mix the chemical emulsion with the soil as it is being replaced in the trench. Inside vertical barriers may not be required for monolithic slabs.

When treating hollow block voids, use 2 gallons of emulsion per 10 linear feet to assure that the emulsion reaches the top of the footing.

Prior to each application, applicators must notify the general contractor, construction superintendent, or similar responsible party, of the intended termiticide application and intended sites of application and instruct the responsible person to notify construction workers and other individuals to leave the area to be treated during application and until the termiticide is absorbed into the soil.

Post-construction Subterranean Termite Treatment

For a post-construction treatment, use a 0.06% emulsion. Post-construction treatments shall be made by injection, trenching and rodding into the trench or trenching using a low-pressure spray not exceeding 25 p.s.i. at the nozzle. Proper precautions should be taken to avoid soil wash-out around the footing.

Locate, identify, and mark wells, electrical conduits, water and sewer lines, and radiant heat pipes prior to application of **Talak 7.9% F**. Do not puncture or inject **Talak 7.9% F** into these structures.

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

Create vertical barriers by trenching and rodding into the trench or trenching outside at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth and by sub-slab injection within the structure. Ensure an even distribution of chemical. Applications must not be made below the bottom of the footing.

Apply beside the outside of the foundation and under the slab on the inside of foundation walls, where needed. Treatment of slabs may also be necessary under and beside both sides of any interior footing-supported walls, in all cracks and expansion joints, and beside one side of interior partitions. By long-rodding or grid pattern injection vertically through the slab, horizontal barriers may be created where necessary.

- a. To permit the creation of an uninterrupted insecticidal barrier, drill holes in the foundation and/or slab.
- b. For foundations that are less than or equal to 1 foot, dig a narrow trench about 6 inches wide beside the outside of the foundation walls. Do not dig beneath the bottom of the footing. As the soil is placed back into the trench, apply 4 gallons of emulsion per 10 linear feet per foot of depth to the trench and soil.
- c. For foundations that are deeper than 1 foot, follow the rates stated above for basements.
- d. A 0.06% emulsion may be used to treat exposed wood in bath traps.

Basements

Treatment must be made by trenching and rodding into the trench, or trenching at the rate of 4 gallons of emulsion per 10m linear feet per foot of depth wherever the footing, from grade to the bottom of the foundation, is greater than 1 foot of depth. When the footer is greater than four feet below grade, the applicator may trench and rod into the trench, or trench beside foundation walls at the rate designated for four feet of depth. Space rod holes to create a continuous insecticidal barrier, but in no case more than 12 inches apart. Depending on the type of soil, degree of compaction and location of termite activity, the actual depth of treatment will differ. However, a structure should never be treated below the footer. Sub-slab injection may be needed beside the inside of foundation walls, around conduits, piers, and pipes, beside both sides of interior footing-supported walls, and beside cracks and partition walls.

Accessible Crawl Spaces: For crawl spaces, apply vertical termiticide barriers at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 4 feet below grade, to a minimum depth of 4 feet. Apply by trenching and rodding into the trench, or trenching. Treat both sides of foundation and around all piers and pipes. Where physical obstructions such as concrete walkways adjacent to foundation elements prevent trenching, 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 to be wider than 6 inches. When trenching in sloping (tiered) soil, the trench must be stepped to ensure adequate distribution and prevent termiticide from running off. The emulsion 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 Crawl Spaces: For inaccessible interior areas, such as areas where there is insufficient clearance between floor joists and ground surfaces to allow operator access, excavate if possible, and treat according to the instruction 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 emulsion per 10 square feet overall using a nozzle pressure of less than 25 p.s.i. and a coarse application nozzle (e.g., Delavan® Type RD Raindrop®, RD-7 or larger, or Spraying Systems Co. 8010LP TeeJet® or comparable nozzle). For an area that cannot be reached with the application wand, use one or more extension rods to make the application to the soil. Do not broadcast or powerspray with higher pressures.
2. To establish a horizontal barrier, drill through the foundation wall or through the floor above and treat the soil perimeter at a rate of 1 gallon of emulsion per 10 square feet. Drill spacing must be at intervals not to exceed 16 inches. Many states have smaller intervals, so check state regulations which may apply.

When treating plenums and crawl spaces, turn off the air circulation systems 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 a rate of 2 gallons of emulsion per 10 linear feet of footing, using a nozzle pressure of less than 25 p.s.i. When using this treatment, access holes must be drilled below the sill plate and should be as close as possible to the footing as is practical. Treatment of voids in block or rubble foundation walls must be closely examined. Applicators must inspect areas of possible runoff as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration prior to treatment.

All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy the contaminated areas of the structure until the clean-up is completed.

Note: When treating behind veneer structures (walls, etc.) take proper care to not drill beyond the veneer. If concrete blocks exist behind the veneer, both can be drilled and treated simultaneously.

Talak 7.9% F may not be used in voids insulated with rigid foam insulation.

Excavation Technique: If treatment must be made in difficult situations, along field-stone or rubble walls, along faulty foundation walls, and around pipes and utility lines which lead downward from the structure to a well or pond, apply using the following technique:

- a. Prepare a trench, placing the removed soil into heavy-weight plastic sheeting or similar, water-impermeable material.
- b. Treat the soil with 4 gallons of emulsion per 10 linear feet per foot of depth of the trench. Completely mix the emulsion into the soil exercising care to avoid liquid running off the sheeting.
- c. Place the treated soil back into the trench after it has absorbed the emulsion.

Attention: Wear MSHA/NIOSH approved unvented goggles and a respirator when applying **Talak 7.9% F** in a confined area.

SPECIFIC PEST CONTROL APPLICATIONS

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

To prevent attack by termites and ants, apply 0.06 to 0.12% **Talak 7.9% F** emulsion to the soil.

Apply to the bottom of the trench at the rate of 2 gallons of emulsion per 10 linear feet. Let the emulsion be absorbed into the soil. Lay services on the treated soil and cover with about 2 inches of fill soil. Apply another 2 gallons per 10 linear feet over the soil surface to complete the chemical barrier. In wide trenches, only the soil near the services should be treated. A continuous barrier of treated soil surrounding the services must be established.

In cases where the soil will not accept the above labeled volume, 1 gallon of 0.12% **Talak 7.9% F** may be used per 10 linear feet of trench. Apply both to the bottom of the trench and over the soil on top of the services.

Fill the trench with treated fill soil. Treat the soil where each service sticks out from the ground by trenching/rodding of not more than 1 to 2 gallons of emulsion into the soil.

Precautions: Do not treat electrically active underground services.

Posts, Poles, and Other Constructions: Around wooden constructions such as signs, fences and landscape ornamentation an insecticidal barrier can be established by treating with a 0.06% emulsion. Sub-surface injection and gravity-flow through holes in the bottom of the trench, are two treatment methods that can be used on poles and posts that have already been installed. A complete chemical barrier around the pole can be established by treating on all sides. For poles and posts less than six inches in diameter use 1 gallon of emulsion per foot of depth and 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 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 infested wood in and around structures, apply a 0.06% emulsion to voids and galleries in damaged wood and in spaces between wooden members of a structure and between wood and foundations where wood is at risk. Paint on or fan spray applications may also be used. Place plastic sheeting under overhead areas that are spot treated except for soil surfaces in crawl spaces. Areas in which access is difficult may be treated by drilling, and then injecting the 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.

Termite Carton Nests in Trees or Building Voids: To control termite carton nests in trees or building voids inject with a 0.06% emulsion. Multiple injection points to varying depths may be necessary. Carton nest material should be removed from building voids when nests are discovered.

Control of Bees, Wasps Hornets, and Yellow Jackets Indoors: To control Bees, Wasp, Hornets, and Yellow-Jackets, apply a 0.06% 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. 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 emulsion 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 re-use. Remove pets, birds, and cover aquariums before spraying. Do not permit humans or pets to contact treated surfaces until the spray has dried.

During any overhead applications to overhead interior areas of structures, cover surfaces below with plastic sheeting or similar materials.

Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried.

Outside of Structures

Broadcast Treatment of Wood for the Control of Wood-infesting Insects and Nuisance Pests: In order to control wood-infesting insects active inside trees, utility poles and/or fence posts, drill to the interior infested cavity and inject a 0.06% emulsion. If treating nuisance pests on the exterior of the structure, apply a 0.06% emulsion with a fan spray using a maximum pressure of 25 p.s.i. and apply just to the point of run-off. To control Bees, Wasps, Hornets, and Yellow-Jackets, direct the spray at nest openings in the ground, bushes, and in cracks and crevices. Saturate nest openings and contact as many insects as possible. Apply in late evening when insects are at rest.

Pests Under Slabs: To control infestations of Arthropods, including ants, cockroaches and scorpions living beneath the slab area, drill and inject, or horizontal rodding and then inject 1 gallon of a 0.06% to 0.12% emulsion per 10 square feet or 2 gallons of emulsion per 10 linear feet.

Formula for Determining the Active Ingredient Content of the Finished Spray Mixture: The following formula may be used to determine the percent active ingredient that is in the spray tank after mixing **Talak 7.9% F**:

$$\frac{(7.9\%) \times (\text{fl. oz. of Talak 7.9\% F Added to Tank})}{(\text{Gallons of Finished Spray Mix}) \times (128)} = \text{Percent Active Ingredient of Spray Mix}$$

LAWNS AND ORNAMENTALS

Application Instructions

Talak 7.9% F may be mixed with water and other aqueous carriers for the control of insects and mites on trees, shrubs, foliage plants, non-bearing (perennial crops that will not produce a harvestable raw agricultural commodity during the season of application) fruit and nut trees, and flowers in 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.

Talak 7.9% F may be tank-mixed with insect growth regulators as well as other pesticides. Observe all precautions and the directions for use for each tank mix product. Physical compatibility of **Talak 7.9% F** may vary with different combinations of products, and local cultural practices. Prepare a small scale (pint or quart jar) test sample for any combination not tested previously. Use the proper proportions of pesticides and water to make sure of the compatibility of the mixture.

Tank Mix Compatibility Testing

A jar test is recommended prior to tank mixing to ensure compatibility of **Talak 7.9% F** and other products. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Always use water from the intended source. Invert the jar

containing the mixture several times and observe the mixture for approximately 1/2 hour. Evaluate the solution for uniformity and stability. If the mixture balls-up, forms flakes, sludges, gels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

Tank Mix Preparation:

Unless otherwise noted, follow the procedure below to prepare a tank mix:

- 1) Add wettable powders to tank water
- 2) Agitate
- 3) Add liquids and flowables
- 4) Agitate
- 5) Add emulsifiable concentrates
- 6) Agitate

Formula for Determining the Active Ingredient Content of the Finished Spray Mixture:

The following formula may be used to determine the percent active ingredient that is in the spray tank after mixing **Talak 7.9% F**:

$$\frac{(7.9\%) \times (\text{fl. oz. of Talak 7.9\% F Added to Tank})}{(\text{Gallons of Finished Spray Mix}) \times (128)} = \text{Percent Active Ingredient of Spray Mix}$$

Resistance: Some insects may 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 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 in your area.

In the State of New York, for application uses outdoors on ornamentals and lawns in landscaped areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields:

The Following Precautionary Measures Must be Obeyed.

A 100 foot buffer must be maintained between the application site and the waters of the State. A 100 foot buffer is required for all waters except those entirely privately owned with no outlet to State waters. The buffer must consist of well maintained, established vegetation (i.e. grass, etc.) growth and must be maintained to prevent the development of channels.

In New York State, do make a single repeat application of this product if there are signs of renewed insect activity, but no sooner than two weeks after the first application.

Lawn Application

Apply **Talak 7.9% F** as a broadcast treatment. For uniform control when applying to dense grass foliage, use volumes of up to 10 gallons per 1,000 square feet.

To ensure control of sub-surface pests, including Mole Crickets, using low volume applications (less than 2 gallons per 1,000 square feet) immediately follow treatment with irrigation of treated area with at least 0.25 inches of water.

Application Rates

Under typical conditions, the application rates shown in the table below will provide control of the listed pests. Follow the application rates listed in the table below for typical pest pressure. **Talak 7.9% F** may be applied at up to 1 fl. oz. per 1,000 square feet at the discretion of the applicator. Use the higher application rate for maximum residual control.

Pest	Application Rate	Application Instructions
Armyworms Cutworms Sod Webworm	0.18 - 0.25 fl. oz. per 1,000 sq. ft.	For best results, postpone watering (irrigation) or mowing for 24 hours after application. Higher treatment rates (up to 1 fluid oz. per 1,000 square feet) may be necessary if high pest pressure exists and grass is maintained taller than 1 inch.
Annual Bluegrass Weevil (Hyperodes) (Adult) Banks Grass Mite Billbugs (Adult) Black Turfgrass Ataenius (Adult) Centipedes Chinch Bugs Crickets Earwigs Fleas (Adult) Grasshoppers Leafhoppers Mealybugs Millipedes Mites Pillbugs Sowbugs	0.25 - 0.50 fl. oz. per 1,000 sq. ft.	<p>Annual Bluegrass Weevil (<i>Hyperodes</i>) Adults: Treatment should be timed as they travel into grass away from their overwintering sites. Travel usually begins when <i>Forsythia</i> is in full bloom and concludes when flowering dogwood (<i>Cornus florida</i>) is in full bloom. For additional detailed information, check with your State Cooperative Extension Service.</p> <p>Billbug Adults: Treatment should be made when adult billbugs are first noticed in April and May. To optimize treatment, degree day models have been developed. For additional detailed information, check with your State Cooperative Extension Service. Spring treatments for billbug adults will also offer control of over-wintered chinch bugs in temperate climates.</p> <p>Black Turfgrass Ataenius Adults: To control the first and second generation of black turfgrass ataenius adults, respectively, treatments should take place in May and July. Time the May treatment to coincide with the full bloom stage of Vanhoutte spiraea (<i>Spiraea vanhoutte</i>) and horse chestnut (<i>Aesculus hippocastanum</i>). Time the July treatment to coincide with the blooming Rose of Sharon (<i>Hibiscus syriacus</i>).</p> <p>Chinch Bugs: Mostly found in the thatch layer, Chinch bugs infest the base of grass plants. In order to optimize the penetration of the insecticide to location of the chinch bugs, irrigation of the grass prior to treatment may be necessary. If the grass is kept at a long mowing height or if the thatch layer excessive, use higher volume treatments. It may be necessary to use higher application rates (up to 1 fluid oz. per 1,000 square feet) to control Chinch Bug populations made up of both nymphs and adults in mid summer.</p> <p>Mites: Apply in combination with a labeled application rate of a surfactant to achieve optimal control of eriophyid mites. A second application may be needed, five to seven days after the first, to ensure optimal control.</p>
Crane Flies	0.5 fl. oz. per 1,000 sq. ft.	Applications should be made August - February to control early to mid-season larvae as they feed on plant crowns. Applications made March - April to late-season larvae may aid in suppression.
Ants Fleas (Larvae) Imported Fire Ants Japanese Beetle (Adult) Mole Cricket (Adult) Mole Cricket (Nymph) Ticks	0.5 - 1.0 fl. oz. per 1,000 sq. ft.	<p>Flea Larvae: Flea larvae mature in shaded areas accessible to pets or other animals. When treating these areas use a higher volume treatment so that the insecticide penetrates into the soil. Note: If the lawn area is being treated with Talak 7.9% F at 0.25 fluid ounces per 1,000 square feet for adult flea control, then the larval application rate can be accomplished by a two- to four-fold increase in spray volume.</p> <p>Imported Fire Ants: For best control use broadcast treatments in combination with mound drenches. This will control present colonies along with foraging workers and newly mated fly-in queens. It is critical either to use high volume treatments or to irrigate prior to application if the soil is dry. Apply 1 fluid oz. per 1,000 square feet when using broadcast treatments. For mound drenches, dilute 1 teaspoon of Talak 7.9% F per gallon of water and use 1 to 2 gallons of finished spray per mound using sufficient force to penetrate the top and allow the emulsion to flood ant channels. Treat a four foot diameter around each ant mound. Application should be made in late evening or early morning when it is cooler (65 - 80°F). Note: A spray rig calibrated to apply 1 fluid oz. per 1,000 square feet of Talak 7.9% F in 5 gallons per 1,000 square feet contains the equivalent emulsion (1 teaspoon per gallon) required for fire ant mound drenches in the spray tank.</p> <p>Mole Cricket Adults: Since the preferred grass areas are subject to constant invasion in early spring by the active adult stage, it can be difficult to maintain control of adult mole crickets. Make treatments as late in the day as possible and follow with up to 0.5 inches of water after treatment. To ensure maximum contact with the insecticide when the soil is dry, irrigate prior to treatment to bring the adult mole crickets closer to the soil surface.</p> <p>To obtain optimal control of potential nymphal populations, the grass areas preferred by adult mole crickets in the spring should be treated immediately prior to peak hatch stage. (See below).</p>

(continued)

Pest	Application Rate	Application Instructions
Ants Fleas (Larvae) Imported Fire Ants Japanese Beetle (Adult) Mole Cricket (Adult) Mole Cricket (Nymph) Ticks	0.5 - 1.0 fl. oz. per 1,000 sq. ft.	<p>Mole Cricket Nymphs: To obtain optimal control of potential nymphal populations, the grass areas preferred by adult mole crickets in the spring should be treated immediately prior to peak hatch stage. Young nymphs are more vulnerable to insecticidal treatment at this stage because they are close to the soil surface where the insecticide is most effective. Use higher application rates and frequent applications to control larger, more damaging, nymphs later in the year. Make treatments as late in the day as possible and water immediately with up to 0.5 inches of water. To ensure maximum contact with the insecticide when the soil is dry, irrigate prior to treatment to bring the adult mole crickets closer to the soil surface.</p> <p>Ticks (including ticks that may transmit Lyme Disease and Rocky Mountain Spotted Fever): Make application to the entire area where contact with ticks may occur. Do not make spot treatments. When applying to areas with heavy leaf litter or dense ground cover use higher spray volumes. To attain and/or sustain control in times of high pest pressure, retreatments may be necessary; retreat only if signs of continued or renewed tick activity are present. Repeat treatments must not be made more often than once per seven days.</p> <p>Deer Ticks (<i>Ixodes</i> sp.) have a four-stage life cycle spanning 2 years. Treat in the late fall and/or early spring to control adult ticks located on brush or grass above the soil surface and in mid to late spring to control larvae and nymphs that live in the soil and leaf litter.</p> <p>American Dog Ticks invade suburban settings in areas where residences and dwellings are constructed on former fields or wooded areas. These pests normally gather by paths or roadways where they are likely to find a host. To control tick larvae, nymphs and adults, treatments should take place, as needed, from mid spring to early fall.</p>

Calculating Dilution Rates: To determine the proper dilution of **Talak 7.9% F** that is required to control specific pests, follow the steps below:

- 1) Determine the target pest requiring the highest application rate for effective control in the **Application Rates** table.
- 2) Choose the treatment rate in terms of fluid oz. of **Talak 7.9% F**.
- 3) Determine the dilution volume necessary for the treatment in the **Dilution Chart**.
- 4) Use the proper amount of **Talak 7.9% F** that must be mixed in your desired volume of water as shown in the **Dilution Chart**.

For example, to control ticks the **Application Rates** table shows that 0.5 to 1.0 fluid ounces of **Talak 7.9% F** must be applied per 1,000 square feet. You select an application rate of 1.0 fluid oz. per 1,000 square feet because maximum residual control is desired. Your application volume is approximately 10 gallons per 1,000 sq. ft. Consulting the **Lawn Application Dilution Chart** reveals that you should dilute 1.0 fluid oz. of **Talak 7.9% F** in 10 gallons of water.

Lawn Application Dilution Chart

Application Volume	Application Rate	Fluid Ounces* of Talak 7.9% F Diluted to these Volumes of Finished Spray			
		1 gallon	5 gallons	10 gallons	100 gallons
Gallons per 1,000 sq. ft.	Fluid Ounces per 1,000 sq. ft.				
1.0	0.18	0.18	0.90	1.8	18.0
1.0	0.25	0.25	1.25	2.5	25.0
1.0	0.5	0.5	2.5	5.0	50.0
1.0	1.0	1.0	5.0	10.0	100.0
2.0	0.18	-	0.45	0.90	9.0
2.0	0.25	0.13	0.63	1.25	12.5
2.0	0.5	0.25	1.25	2.5	25.0
2.0	1.0	0.5	2.5	5.0	50.0
3.0	0.18	-	0.30	0.60	6.0
3.0	0.25	-	0.42	0.83	8.3
3.0	0.5	0.17	0.83	1.67	16.7
3.0	1.0	0.33	1.67	3.33	33.3
4.0	0.18	-	0.23	0.45	4.5
4.0	0.25	-	0.31	0.63	6.3
4.0	0.5	0.13	0.63	1.25	12.5
4.0	1.0	0.25	1.25	2.5	25.0

(continued)

Lawn Application Dilution Chart *(continued)*

Application Volume	Application Rate	Fluid Ounces* of Talak 7.9% F Diluted to these Volumes of Finished Spray			
		Gallons per 1,000 sq. ft.	Fluid Ounces per 1,000 sq. ft.	1 gallon	5 gallons
5.0	0.18	-	0.18	0.36	3.6
5.0	0.25	-	0.25	0.5	5.0
5.0	0.5	0.1	0.5	1.0	10.0
5.0	1.0	0.2	1.0	2.0	20.0
10.0	0.18	-	-	0.18	1.8
10.0	0.25	-	0.13	0.25	2.5
10.0	0.5	-	0.25	0.5	5.0
10.0	1.0	0.1	0.5	1.0	10.0

* To convert fluid ounces to milliliters, multiply by 29.57
 1 fluid ounce = 29.57 ml = 2 tablespoons = 6 teaspoons
 Do not use household utensils to measure **Talak 7.9% F**.

Ornamentals and Trees Application

Talak 7.9% F is for use on trees, shrubs, ground covers, bedding plants, and foliage plants. Treat with 0.125 to 1.0 fl. oz. of **Talak 7.9% F** per 1,000 square feet or 5.4 to 43.5 fl. oz. per 100 gallons. **Talak 7.9% F** may be diluted and used in different volumes of water as long as the maximum label rate (1.0 fluid oz. per 1,000 square feet or 43.5 fl. oz. per 100 gallons) is not exceeded. If diluted with water or other carriers, **Talak 7.9% F** may be applied through low volume application equipment as long as the maximum label rate (1.0 fluid oz. per 1,000 square feet or 43.5 fl. oz. per 100 gallons) is not exceeded.

Treat as a full coverage foliar spray using the stated application rate. If pest pressure and density of foliage increases, repeat treatments using higher rates may be needed to reach the desired control. Repeat treatments must not be made more often than once per 7 days.

Before application to entire planting, test treat a small number of plants and watch for signs of sensitivity. Some plant species may be sensitive to the final spray solution.

To avoid or delay pest resistance, it is recommended to use an alternate class of pesticide in any application program.

In the State of New York, for application uses outdoors on ornamentals and lawns in landscaped areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields:

The Following Precautionary Measures Must be Obeyed.

A 100 foot buffer must be maintained between the application site and the waters of the State. A 100 foot buffer is required for all waters except those entirely privately owned with no outlet to State waters. The buffer must consist of well maintained, established vegetation (i.e. grass, etc.) growth and must be maintained to prevent the development of channels.

In New York State, do make a single repeat application of this product if there are signs of renewed insect activity, but no sooner than two weeks after the first application.

Application Rates

Under typical conditions, the application rates in the table below will offer optimal control of the listed pests. **Talak 7.9% F** may be applied at up to 1 fl. oz. per 1,000 square feet (43.5 oz. per 100 gallons) at the discretion of the applicator. When maximum residual control is preferred, use the higher treatment rates.

Pest	Application Rate	Application Instructions
Bagworms Cutworms Elm Leaf Beetles Fall Webworms Gypsy Moth Caterpillars Lace Bugs Leaf Feeding Caterpillars Tent Caterpillars	0.125 - 0.250 fl. oz. per 1,000 sq. ft. (5.4 - 10.8 fl. oz. per 100 gal.)	Bagworms: For optimum control treat when larvae have started to hatch and are young, directing spray to contact as many larvae as possible.

(continued)

Pest		Application Rate	Application Instructions
Adelgids	Leafrollers	0.25 - 0.50 fl. oz. per 1,000 sq. ft. (10.8 - 21.7 fl. oz. per 100 gal.)	Beetles, Scale Crawlers, Twig Borers, and Weevils: Apply to plant foliage; also treat trunks, stems and twigs.
Ants	Mealybugs		
Aphids	Millipedes		
Bees	Mites		
Beet Armyworm	Mosquitoes		
Beetles	Orchid Weevil		
Black Vine Weevil (Adults)	Pillbugs		
Broad Mites	Pine Needle Scales (Crawlers)		
Brown Soft Scales	Plant Bugs		
Budworms	(Including <i>Lygus</i> spp.)		
California Red Scale (Crawlers)	Psyllids		
Centipedes	San Jose Scales (Crawlers)		
Cicadas	Scorpions		
Citrus Thrips	Sowbugs		
Clover Mites	Spider Mites		
Crickets	Spiders		
Diaprepes (Adults)	Spittlebugs		
Earwigs	Thrips		
European Red Mite	Tip Moths		
Flea Beetles	Treehoppers		
Fungus Gnats (Adults)	Twig Borers		
Grasshoppers	Wasps		
Japanese Beetle (Adult)	Weevils		
Leafhoppers	Whiteflies		
Imported Fire Ants**		0.5 - 1.0 fl. oz. per 1,000 sq. ft. (21.7 - 43.5 fl. oz. per 100 gal.)	Spider Mites: Apply during spring and summer for most effective control of twospotted spider mites. During mid- to late-summer it may be necessary to make more frequent treatments, possibly at higher rates to achieve suitable control. Control may be enhanced by adding a surfactant or horticultural oil or by combining Talak 7.9% F with other products registered to control mites. Applications of Talak 7.9% F may be alternated with chemicals offering other modes of action in programs that are designed to manage resistance by twospotted spider mites. For recommendations on resistance management in your region check with your local Cooperative Extension Service.
Leafminers			
Pecan Leaf Scorch Mite			
Pine Shoot Beetle (Adults)			
Spider Mites			

** For foraging ants.

Calculating Dilution Rates: To determine the proper dilution of **Talak 7.9% F** that is required to control specific pests, follow the steps below:

- 1) Determine the target pest requiring the highest application rate for effective control in the **Application Rates** table.
- 2) Choose the treatment rate in terms of fluid oz. of **Talak 7.9% F**.
- 3) Determine the dilution volume necessary for the treatment in the **Dilution Chart**.
- 4) Use the proper amount of **Talak 7.9% F** that must be mixed in your desired volume of water as shown in the **Dilution Chart**.

For example, to control black vine weevil adults on rhododendron, the **Application Rates** table shows that 0.25 to 0.5 fluid ounces of **Talak 7.9% F** must be applied per 1,000 square feet. You select an application rate of 0.5 fluid oz. per 1,000 square feet because maximum residual control is desired. Your application volume is approximately 300 gallons per acre, which is equivalent to 6.9 gallons per 1,000 square feet. Consulting the **Ornamental Application Dilution Chart** reveals that you should dilute 0.72 fluid oz. of **Talak 7.9% F** in 10 gallons of water.

Ornamental Application Dilution Chart

Application Volume Gallons per		Application Rate fl. oz. per	Fluid Ounces* of Talak 7.9% F Diluted to these Volumes of Finished Spray			
1,000 sq. ft.	Acre	1,000 sq. ft.	1 gallon	5 gallons	10 gallons	100 gallons
2.3	100	0.125	-	0.27	0.54	5.4
2.3	100	0.25	0.11	0.54	1.08	10.8
2.3	100	0.5	0.22	1.09	2.17	21.7
2.3	100	1.0	0.44	2.17	4.35	43.5
4.6	200	0.125	-	0.14	0.27	2.7
4.6	200	0.25	-	0.27	0.54	5.4
4.6	200	0.5	0.11	0.54	1.09	10.9
4.6	200	1.0	0.22	1.09	2.17	21.7
6.9	300	0.125	-	-	0.18	1.8
6.9	300	0.25	-	0.18	0.36	3.6
6.9	300	0.5	-	0.36	0.72	7.2
6.9	300	1.0	0.15	0.72	1.45	14.5

* To convert fluid ounces to milliliters, multiply by 29.57

300 gallons per acre is a typical application volume for landscape ornamental applications.

1 fluid ounce = 29.57 ml = 2 tablespoons = 6 teaspoons

Do not use household utensils to measure **Talak 7.9% F**.

Pest Control on Outside Surfaces and Around Buildings

Apply **Talak 7.9% F** to outside surfaces of buildings including exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps, lawns such as grass areas adjacent or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, and other residential and non-commercial structures, soil, trunks of woody ornamentals and other areas where pests congregate or have been seen.

Talak 7.9% F may be used to control the following pests:

Ants	Chinch Bugs	Gnats	Silverfish
Carpenter Ants	Clover Mites	Grasshoppers	Sod Webworms
Fire Ants	Crickets	Hornets	Sowbugs (Pillbugs)
Armyworms	Cutworms	Japanese Beetles [†]	Spider Mites
Bees	Dichondra Flea Beetles	Midges	Spiders
Beetles	Earwigs	Millipedes	(Including Black Widow Spiders)
Biting Flies	Elm Leaf Beetles	Mosquitoes	Springtails
Boxelder Bugs	Firebrats	Moths	Ticks (Including Brown Dog Ticks)
Centipedes	Fleas	Roaches (Including Cockroaches)	Wasps
Chiggers	Flies	Scorpions	

[†] Not for use in California.

Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack and crevice treatment. During application, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters.

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 or the following permitted uses, if allowed elsewhere on this label:

1. Application 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 the 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.

Application

Use a 0.02 to 0.06% dilution to spray outside surfaces of buildings. Use a spray volume of up to 10 gallons of dilution per 1,000 square feet. Use higher application volumes if vegetation or landscape materials are dense.

Mixing Directions: For 0.02% suspension, mix 0.33 fluid oz. of **Talak 7.9% F** per gallon of water. For 0.06% suspension, mix 1 fluid oz. **Talak 7.9% F** per gallon of water (1 fluid oz. = 2 tablespoons). Do not use household utensils to measure **Talak 7.9% F**. Use the higher rates for heavy pest infestation, quicker knockdown or longer residual control. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application only if there are signs of renewed insect activity. Repeat application limited to once per seven days.

Perimeter Treatment: Treat a band of soil and vegetation 6 to 10 feet wide around and next to the structure and the foundation of the structure to a height of 2 to 3 feet. Use 0.33 to 1.0 fluid oz. of **Talak 7.9% F** per 1,000 square feet in enough water to provide sufficient coverage (refer to **Perimeter Application Dilution Chart**).

For Ant and Fire Ant Mounds use Talak 7.9% F 0.06% Dilution as Drench Method: Use 1 to 2 gallons of dilution for each mound area. Sprinkle the mound until wet and apply to a 4 foot diameter circle around the mound. For mounds larger than 12", use a higher volume. Applications should be made in cool weather, such as in early morning or late evening hours, not in the heat of the day.

Mosquito Control: To control mosquitoes around buildings, landscapes, and lawns, dilute 0.33 to 1.0 fl. oz. of **Talak 7.9% F** per gallon of water and apply at the rate of one gallon of dilution per 1,000 square feet as a general spray. **Talak 7.9% F** may be diluted at lower concentrations and applied at higher volumes to ensure the proper amount of product per area (refer to the **Ornamental or Perimeter Application Dilution Charts**).

Calculating Dilution Rates: The following steps should be taken to determine the appropriate dilution of **Talak 7.9% F** that is required to control specific pests:

- 1) Select an application rate in of fluid oz. of **Talak 7.9% F**.
- 2) Determine your application volume and amount of spray mix you want to prepare in the **Dilution Chart**.
- 3) Use the **Dilution Chart** to determine the appropriate volume of **Talak 7.9% F** that must be mixed in your desired volume of water.

Perimeter Application Dilution Chart

Application Volume Gallons per 1,000 sq. ft.	Application Rate Fluid Ounces per 1,000 sq. ft.	Fluid Ounces* of Talak 7.9% F Diluted to these Volumes of Finished Spray			
		1 gallon	5 gallons	10 gallons	100 gallons
1.0	0.33	0.33	1.67	3.3	33.3
1.0	0.5	0.5	2.5	5.0	50.0
1.0	0.67	0.67	3.33	6.7	66.7
1.0	0.75	0.75	3.75	7.5	75.0
1.0	1.0	1.0	5.0	10.0	100.0
2.0	0.33	0.17	0.83	1.65	16.5
2.0	0.5	0.25	1.25	2.5	25.0
2.0	0.67	0.33	1.67	3.35	33.5
2.0	0.75	0.38	1.88	3.75	37.5
2.0	1.0	0.5	2.5	5.0	50.0
3.0	0.33	0.11	0.55	1.10	11.0
3.0	0.5	0.17	0.83	1.67	16.7
3.0	0.67	0.22	1.11	2.23	22.3
3.0	0.75	0.25	1.25	2.5	25.0
3.0	1.0	0.33	1.67	3.33	33.3
4.0	0.33	-	0.42	0.83	8.3
4.0	0.5	0.13	0.63	1.25	12.5
4.0	0.67	0.17	0.84	1.67	16.7
4.0	0.75	0.19	0.94	1.88	18.8
4.0	1.0	0.25	1.25	2.5	25.0
5.0	0.33	-	0.33	0.67	6.7
5.0	0.5	0.1	0.5	1.0	10.0
5.0	0.67	0.13	0.67	1.33	13.3
5.0	0.75	0.15	0.75	1.5	15.0
5.0	1.0	0.2	1.0	2.0	20.0

(continued)

Perimeter Application Dilution Chart (continued)

Application Volume	Application Rate	Fluid Ounces* of Talak 7.9% F Diluted to these Volumes of Finished Spray			
		Gallons per 1,000 sq. ft.	Fluid Ounces per 1,000 sq. ft.	1 gallon	5 gallons
10.0	0.33	-	0.17	0.33	3.3
10.0	0.5	-	0.25	0.5	5.0
10.0	0.67	-	0.33	0.67	6.7
10.0	0.75	-	0.38	0.75	7.5
10.0	1.0	0.1	0.5	1.0	10.0

* To convert fluid ounces to milliliters, multiply by 29.57
 1 fluid ounce = 29.57 ml = 2 tablespoons = 6 teaspoons
 Do not use household utensils to measure **Talak 7.9% F**.

INDOOR USE

Talak 7.9% F may be used for residual pest control in buildings and structures and on modes of transport. For control of ants, bees, beetles, boxelder bugs, carpet beetles, centipedes, clothes moths, cockroaches, crickets, earwigs, firebrats, flies, gnats, midges, millipedes, pillbugs, scorpions, silverfish, sowbugs, spiders, ticks and wasps.

In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before reuse. Exposed food should be covered or removed. Do not permit humans or pets to contact treated surfaces until the spray has dried. During any overhead applications to overhead interior areas of structures, cover surfaces below with plastic sheeting or similar materials.

Application

Apply to areas where pests hide. These areas include 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. Treat with a low-pressure spray (25 p.s.i. or less), coarse, crack and crevice, pinstream, spot or with a paint brush. Pay close attention to cracks and crevices. Not for use as a space spray.

Mixing Directions: Prepare a dilution of **Talak 7.9% F** for spray or brush application. See **Mixing Directions** in **Pest Control on Outside Surfaces and Around Buildings** section.

- Fill sprayer with the required amount of water.
- Add **Talak 7.9% F**.
- Close sprayer and shake to ensure proper mixing.
- Prepare only the amount of solution necessary for treatment.

In order to achieve and/or maintain control in times of high pest pressure, retreatment may be needed. Repeat application should only take place if there are signs of renewed insect activity and should not exceed one application per 7 days.

Application Rates: For 0.02% suspension, mix 0.33 fluid oz. of **Talak 7.9% F** per gallon of water. For 0.06% suspension, mix 1 fluid oz. **Talak 7.9% F** per gallon of water (1 fluid oz. = 2 tablespoons). Do not use household utensils to measure **Talak 7.9% F**. Use the higher rates for heavy pest infestation, quicker knockdown or longer residual control.

Pest	Application Rate	Application Instructions
Ants	0.33 - 1.0 fl. oz. per gallon of water (0.02% - 0.06% suspension)	Ants: Apply to ant trails, around doors and windows and other places that ant frequent.
Bedbugs		Bedbugs: To help control of Bedbugs, apply thoroughly to crack and crevices where bedbugs frequent. This includes bed frames, box springs, inside empty dressers and clothes closets, carpet edges, wall moldings (high and low), and wallpaper edges. Do not use on bed linens, pillows, mattresses, or clothes. Before application, remove all clothes and other articles from dressers or clothes closets. Allow all treated areas to dry before use. Not recommended for use as sole protection against bedbugs. If evidence of bedbugs is found in/on mattresses, use a product approved for this use.
Bees		Bees and Wasps: Apply to nest in late evening when pests are at rest. Spray nests and surrounding areas thoroughly. Spray nests, entrances to nests and surrounding areas thoroughly. Contact as many insects as possible. Retreat if signs of renewed activity exist.
Beetles		Boxelder Bugs, Centipedes, Earwigs, Beetles, Millipedes, Pillbugs, and Sowbugs: Treat around doors, windows, baseboards, storage areas and other locations where pests may be found.
Boxelder Bugs		Cockroaches, Crickets, Firebrats, Scorpions, Silverfish, Spiders, and Ticks: Use a coarse, low pressure spray to areas where pests hide. These areas include baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, and stoves, the underside of shelves, drawers, and similar areas. Pay close attention to cracks and crevices.
Carpet Beetles		
Centipedes		
Clothes Moths		
Cockroaches		
Crickets		
Earwigs		
Firebrats		
Flies		
Gnats		
Midges		
Millipedes		
Pillbugs		
Scorpions		
Silverfish		
Sowbugs		
Spiders		
Ticks		
Wasps		

Food/Feed Handling Establishments

Talak 7.9% F, when used as a general spot, surface, or crack and crevice treatment, may be applied in both food/feed and nonfood areas of food/feed handling establishments.

Food/feed handling establishments are any place other than private residences where exposed food/feed is held, processed, prepared or served, including areas for receiving, storing, packing (canning, bottling, wrapping, boxing), preparing, enclosed processing systems (mills, dairies, edible oils, syrups) of food and edible waste storage. Serving areas where food is exposed and the facility is in operation are also considered food areas.

Non-food areas in which applications are allowed include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, garages, mop closets and storage (after canning or bottling).

Some of the use sites that are allowed include: Aircraft (do not use in aircraft cabins), apartment buildings, bakeries, bottling facilities, breweries, buses, cafeterias, candy plants, canneries, dairy product processing plants, food manufacturing plants, food processing plants, food service establishments, granaries, grain mills, hospitals, hotels, industrial buildings, laboratories, meat/poultry/egg processing plants, mobile/motor homes, nursing homes, offices, railcars, restaurants, schools, ships, trailers, trucks, vessels, warehouses and wineries.

Surface Application: Do not use this application method in food/feed handling establishments when the facility is in operation or foods/feeds are exposed. During treatment, remove or cover all food processing and/or handling equipment and do not apply directly to food products. All equipment, benches, shelving and other surfaces in food processing plants, bakeries, cafeterias, and other facilities, which food will contact must be washed after treatment. Clean food handling equipment or processing equipment and rinse completely with fresh, clean water.

Spot, Crack and Crevice Application: These types of treatments can be done when the facility is operating, but food should be covered or removed from the treatment area. Do not apply directly to food.

Foam Applications: Converting **Talak 7.9% F** to foam will allow it to be used to treat structural voids. To produce a 0.02% to 0.06% foam concentration, dilute 0.33 to 1.0 fl. oz. of **Talak 7.9% F** per gallon of water and add the manufacturer's recommended amount of foaming agent. Before application, make sure that the foaming agent is compatible with **Talak 7.9% F**.

TERMITE CONTROL (ABOVE GROUND ONLY)

The treatment methods that are expressed below are intended to kill termite workers or winged reproductives present at the time of application. These methods should supplement, not substitute for, mechanical alteration, soil treatment or foundation treatment.

Controlling winged reproductive termites and exposed workers in localized areas can be accomplished by diluting 1.0 fluid ounce of **Talak 7.9% F** per gallon of water and applying the dilution at the rate of one gallon per 1,000 square feet to attics, crawl spaces, unfinished basements and other void areas as a coarse fan spray. Both swarming termites and the areas where they gather should be treated.

Controlling above-ground termites in localized areas of infested wood may be accomplished by diluting 1.0 fluid oz. of **Talak 7.9% F** per gallon of water and applying as a liquid or foam to voids and galleries in wood that is damaged, in addition to spaces between wooden structural members and between the sill plate and foundation where the wood is at risk to attack. Drilling and then injecting the foam or dilution into damaged wood or wall voids with an appropriate directional injector will help reach those areas that are not easy to access. After treatment is completed, securely plug the holes that are in regularly occupied areas in the construction elements.

Controlling termite carton nests in building voids can be accomplished by diluting 1.0 fluid oz. of **Talak 7.9% F** per gallon of water and apply as a liquid or foam using a pointed injection tool. To obtain control, various depths of injection and numerous

injection points may be needed. After treatment is complete and when feasible, remove the carton nest material from the building void.

ANT CONTROL

Nuisance Ants Indoors: Apply to ant nests for best results. Apply a dilution of 0.5 to 1.0 fluid oz. of **Talak 7.9% F** per gallon of water at the rate of one gallon of dilution per 1,000 square feet to places where ants have been seen or are believed to forage as a general surface, crack and crevice or spot treatment. Some of these areas include baseboards, in and behind cabinets, under and behind dishwashers, furnaces, refrigerators, sinks and stoves, around pipes, cracks and crevices and in corners. Pay close attention when treating entry points into the home or around doors and windows. When combining liquid **Talak 7.9% F** treatments with bait treatments use **Talak 7.9% F** as instructed above and apply baits in those areas where **Talak 7.9% F** has not been applied. Do not apply as a broadcast or general surface treatment in residential areas.

Nuisance Ants Outdoors: Apply to ant nests for best results. Treat ant trails, around doors and windows, and other places where ants have been seen or are likely to forage. Treat using a low or high volume perimeter treatment depending on the density of vegetation and landscape materials as described in the **Pest Control on Outside Surfaces and Around Buildings** section of this label. When treating concrete surfaces, more frequent treatments, higher dilutions and/or application volumes may be needed for ant control. The following procedure will normally allow optimal control:

1. Non-porous surfaces should be treated with low volume applications using 0.5 to 1.0 fluid oz. of **Talak 7.9% F** per gallon of water and applying this dilution at the rate of one gallon per 1,000 square feet.
2. Vegetation and porous surfaces should be treated with high volume applications using dilutions that are calculated to deliver 0.5 to 1.0 fluid oz. of **Talak 7.9% F** per 1,000 square feet (refer to the **Ornamental and Perimeter Application Dilution Charts**).
3. Dilute 0.5 to 1.0 fluid oz. of **Talak 7.9% F** per gallon of water and apply at a rate of up to 10 gallons of dilution per 1,000 square feet for maximum residual control.

Carpenter Ants Indoors: Treat areas where carpenter ants are seen or are predicted to forage, such as baseboards, in and behind cabinets, under and behind dishwashers, furnaces, refrigerators, sinks, and stoves, around pipes, cracks and crevices, and in corners by diluting 0.5 to 1.0 fluid oz. of **Talak 7.9% F** per gallon of water and applying at the rate of one gallon of dilution per 1,000 square feet as a general surface, crack and crevice or spot and/or foam treatment. Pay close attention to treating entry points into the home or premises such as around doors and windows. Spray or foam into cracks into crevices or drill holes and spray, mist or foam into voids and galleries where carpenter ants or their nests are present. When combining liquid **Talak 7.9% F** treatments with bait treatments use **Talak 7.9% F** as instructed above and apply baits in those areas where **Talak 7.9% F** has not been applied. Do not apply as a broadcast or general surface treatment in residential areas.

Carpenter Ants Outdoors: Treat carpenter ant nests for best results. Treat areas where carpenter ants are seen or are believed to forage, such as ant trails, around doors and windows. As stated in **Pest Control on Outside Surfaces and Around Buildings** section, apply using a low or high volume perimeter treatment of this label. When treating concrete surfaces, more frequent treatments, higher dilution and/or application volumes may be needed for carpenter ant control. Following the procedure below will normally allow optimal control:

1. Treat non-porous surfaces with low volume applications using 0.5 to 1.0 fluid oz. of **Talak 7.9% F** per gallon of water and applying this dilution at the rate of one gallon per 1,000 square feet.
2. **Talak 7.9% F** may be used as a treatment for the trunks of trees that have carpenter ant trails, or where carpenter ants are foraging. Use 0.5 to 1.0 fl. oz. of **Talak 7.9% F**

per gallon of water and apply this dilution to wet the bark from the base of the tree to as high as possible on the trunk.

3. Vegetation and porous surfaces should be treated with high volume applications using dilutions that are calculated to deliver 0.5 to 1.0 fluid oz. of **Talak 7.9% F** per 1,000 square feet (refer to the **Ornamental and Perimeter Application Dilution Charts**).

4. Dilute 0.5 to 1.0 fluid oz. of **Talak 7.9% F** per gallon of water and apply at a rate of up to 10 gallons of dilution per 1,000 to obtain maximum residual control.

To control carpenter ants inside trees, utility poles, fencing or deck materials and similar structural members, drill to find the inside infested cavity and inject or foam a 0.06% dilution (1.0 fl. oz. of **Talak 7.9% F** per gallon of water) into the cavity with adequate volume and a proper treatment tool with a splash-back guard.

Where there are ants tunneling below the surface, dilute 0.5 to 1.0 fluid ounces of **Talak 7.9% F** per gallon of water and applying as a drench or inject the dilution or foam at intervals of 8 to 12 inches. A uniform vertical barrier should be established where there are ants tunneling below surfaces such as at the edges of walls, driveways or other hard surfaces.

Apply a 0.06% dilution to stored lumber or wood piles using a sprinkling can or a hose-end sprayer to deliver a coarse drenching spray. This wood may be used for lumber or burned after 30 days. Do not use this method of application in structures.

The soil under the area where firewood will be stacked may be treated with a dilution of 1.0 fluid oz. of **Talak 7.9% F** per gallon of water to protect the firewood from carpenter ants (and termites). Apply at the rate of one gallon of dilution per 8 square feet. DO NOT treat firewood with this product.

IMPREGNATION AND APPLICATION OF TALAK 7.9% F ON DRY BULK LAWN FERTILIZERS

Talak 7.9% F may be impregnated on dry bulk fertilizers. When applied as directed, **Talak 7.9% F**/dry bulk fertilizer mixtures provide insect control equal to that provided by the same rates of **Talak 7.9% F** applied in water.

Impregnation: Apply using a minimum 2.3 pounds of dry bulk fertilizer per 1,000 square ft. with the recommended amount of **Talak 7.9% F** per 1,000 square ft. Use a closed rotary-drum mixer or a similar type of closed blender equipped with suitable spray equipment. The spray nozzle(s) should be positioned to provide a uniform, fine spray pattern over the tumbling fertilizer for thorough coverage. The physical properties of fertilizers vary, particularly in liquid absorptive capacity. When absorptivity is sufficient, simple spray impregnation of the fertilizer with **Talak 7.9% F** provides a satisfactory dry mixture. If the absorptive capacity is inadequate, use of a highly absorptive powder is required to provide a dry, flowable mixture. Microcel E (Johns-Manville Products Corporation) is a recommended absorbent powder. Generally less than 2% by weight of Microcel E is required. DO NOT impregnate **Talak 7.9% F** onto straight coated ammonium nitrate or straight limestone because these materials will not absorb the insecticide. Dry fertilizer blends containing mixtures of ammonium nitrate or limestone may be impregnated with **Talak 7.9% F**.

The amount of **Talak 7.9% F** actually required in the preparation of individual fertilizer mixtures should be determined carefully for each production operation. This is necessary to ensure that the amount of pesticide actually contained in the mixture applied to the soil represents the correct rate of use. Bulk fertilizer impregnated with **Talak 7.9% F** should be applied immediately, not stored.

All individual Federal and State regulations relating to bulk dry fertilizer blending, registration, labeling, and application of the mixtures are the responsibility of the individual and/or company selling the fertilizer and **Talak 7.9% F** mixture.

Fertilizer for this use should be Turf fertilizers recommended for specific regions.

USE IN LIVESTOCK/POULTRY HOUSING STRUCTURES AND PET KENNELS

For control of pests including biting flies, filth-breeding flies, fleas, litter beetles, hide beetles, bed bugs, mites, and ticks.

Application may be made as a general surface spray (including directed spray) and/or as a crack and crevice treatment. For best results, make interior and exterior applications at or around the same time. In addition to applications of **Talak 7.9% F**, ensure that normal cleaning practices are followed.

Occupied Areas

Indoors, apply only to indoor cracks and crevices. For exteriors, apply to walls and foundation perimeters to help prevent interior infestations of pests. Use **Talak 7.9% F** at a rate equivalent to 0.33 to 1 fl. oz. per 1,000 sq. feet.

Unoccupied Areas

Apply to areas where crawling or flying pests may be present, such as floors, vertical surfaces, and overhead surfaces, paying special attention to areas such as stanchions, pipes, windows, and doors. Cover feeders, waterers, and feed carts before application, to avoid contamination. Do not apply to milk rooms. Make exterior applications to walls and foundation perimeters to help prevent interior infestations of pests. Use **Talak 7.9% F** at a rate equivalent to 0.33 to 1 fl. oz. per 1,000 sq. feet.

Bed Bugs, Mites and Ticks - Treat cracks and crevices, walls, posts, nest boxes, and mobile side curtains. Do not apply this product directly to animals.

Adult Flies - Make applications to areas where flies will rest, such as the ceiling, rafters, and trusses; also treat windows, walls (interior and exterior), supports, fences, and vegetation. **Talak 7.9% F** may be applied to manure in situations where fly larvae are abundant and the area cannot be cleaned.

Poultry Houses - Make applications to the floor (where birds are grown on litter), walls, posts, and cage framing (where birds are grown in cages); apply also into cracks and crevices around insulation. Reapply after each growout or sanitization procedure, but not more often than every 8 weeks. For improved indoor control, apply to the outside of building foundations to keep adult beetles from moving indoors. Apply in a uniform band 2 to 3 feet up the foundation, and 6 to 10 feet out from the structure. A routine, year-round treatment program will prevent pests from reaching problem levels.

Where Birds are Grown on Litter - Apply **Talak 7.9% F** to litter after birds are removed and during tilling at a rate equivalent to 0.33 to 1 fl. oz. per 1,000 sq. feet. If litter is removed and replaced with fresh litter, make an application to bare soil or concrete at a rate equivalent to 0.33 to 1 fl. oz. per 1,000 sq. feet, and treat the new litter once it is spread. Spray inside walls, posts, and exterior perimeter. Reapply between each flock.

Broiler-breeder Houses - To control beetles; apply as directed above for litter and soil/floor treatment.

Caged-layer Houses - For control of beetles, do not treat accumulated manure because it may disrupt natural enemies that control fly breeding. Treat the perimeter of the manure at a rate equivalent to 0.33 to 1 fl. oz. per 1,000 sq. feet. Also spray pit walls, posts, and the exterior of the structure. Reapply between each flock.

Before applying disinfectants, ensure that the **Talak 7.9% F** treatment is dry.

DO NOT apply **Talak 7.9% F** as a general surface spray when animals are present in the facility. Allow applications to dry before restocking the facility. Crack and crevice treatment may be made when animals are present.

DO NOT apply **Talak 7.9% F** to any animal feed, water, or watering equipment.

DO NOT contaminate any animal feed, food, or water in and around livestock, poultry, or pet housing when making applications.

Attention:

- Do not apply a broadcast application to interior surfaces of homes.
- Do not apply this product in patient rooms or in any rooms while occupied by the elderly or infirm.
- Do not apply in classrooms when in use.
- Do not apply when occupants are present in the immediate area in institutions such as libraries, sports facilities, etc.
- Do not allow people or pets on treated surfaces until spray has dried.
- Let surfaces dry before allowing people and pets to contact surface.
- During any application to overhead areas of structure, cover surface below with plastic sheeting or similar material except for soil surfaces in crawlspaces.
- Do not allow spray to contact food, foodstuffs, food-contacting surfaces or 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 runoff to occur.
- **Talak 7.9% F** will not stain, or damage any surface that water alone will not stain or damage.
- Do not apply to pets, crops, or sources of electricity.
- Firewood is not to be treated.
- Use only in well ventilated areas.
- Do not use on edible crops.

STORAGE AND DISPOSAL

Prohibitions: 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 and unprotected persons. Confine spills.

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 Handling: Plastic Container: Non-refillable Containers. Do not reuse or refill this container. Offer for recycling, if available, 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. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows:

Containers 5 gallons or less: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into 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. Once cleaned, offer for recycling if available.

STORAGE AND DISPOSAL (continued)

Containers larger than 5 gallons: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Once cleaned, offer for recycling or reconditioning if appropriate.

Pressure rinse as follows (all sizes): Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable container: Refill this container with pesticide only. Do not reuse this container for any other purpose. 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. To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing process two more times.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC 1-800-424-9300.

LIMITATION OF WARRANTY AND LIABILITY

IMPORTANT: READ BEFORE USE. Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability. **CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of ATTICUS, LLC. All such risks shall be assumed by the user or buyer. **DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, ATTICUS, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label. **LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, neither ATTICUS, LLC the manufacturer, nor the Seller shall be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

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