

47000 - 103

9/14/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Mr. Steven E. Rogosheske
Chem-Tech, Ltd
4515 Fleur Drive #303
Des Moines, IA 50321

SEP 14 2010

Dear: Mr. Rogosheske:

The Agency is in receipt of your application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated June 4, 2010 for the product **CT 10 Concentrate**. The Registration Division (RD) has conducted a review of the request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The Confidential Statement of Formulas (CSF) and/or label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please contact Melody Banks on 703 305-5413.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard Gebken".

Richard Gebken
Product Manager
Insecticide Branch
Registration Division (7504P)

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 2-28-



United States Environmental Protection Agency Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 47000-103	2. EPA Product Manager Richard Gebken	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) CT 10 Concentrate	PM# 10	
5. Name and Address of Applicant (Include ZIP Code) Chem-Tech, Ltd. 4515 Fleur Drive, #303 Des Moines, IA 50321 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

NOTIFICATION

SEP 14 2010

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Pyrethroid letter of June 4, 2009

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Text <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 8 oz. - 2.5 gal.		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Steve Rogosheske	Title Director Regulatory Affairs	Telephone No. (Include Area Code) 515-287-6778
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		8. Date Application Received (Stamped)
2. Signature 	3. Title Director Regulatory Affairs	
4. Typed Name Steven E. Rogosheske	5. Date 6-4-10	

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CT 10 Concentrate

Editors Note: Text in [Brackets] are optional marketing statements, any or all of which may be used on final label.

- [10% PERMETHRIN]
- [RAPID KILL]
- [Controls flies, mosquitoes, lice & ticks & others as listed]
- 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 for aesthetic purposes or climate modification and being grown in interior plantscapes, ornamental gardens or parks or on golf courses or lawns and grounds.
- For Use Outdoors, in Residences and Non-Food/Feed Areas of Commercial Buildings, Institutions, Warehouses, Theaters, Office Buildings, Schools, Motels, Hotels, Restaurants, Kennels and Food/Feed Processing Establishments]
- [Broad Spectrum Multi-Use Insecticide]
- [Use on Lawns, Ornamental Gardens & Trees]
- [Controls/Kills Lawn Pests]
- [Controls/Kills Ornamental Plant Pests]
- [Controls Hard-To-Kill Insects for up to 4 Weeks]
- [Effective Control of Hard to Kill Insect Pests]
- [Multi-Purpose Insect Killer]
- [Works Fast – Residual Action – Long-Lasting – Quick-Acting]
- [Kills Fast-Proven to Last]
- For Use on Livestock
- [Livestock & Animal Premise Spray]

NOTIFICATION
SEP 14 2012

Active Ingredient:

Permethrin*.....	10.00%
Other Ingredients**.....	90.00%
	100.00%

*cis/trans ratio: Max 65% (+/-) trans and min. 35% (+/-) cis.

**Contains Petroleum Distillate

KEEP OUT OF THE REACH OF CHILDREN
WARNING
READ ENTIRE LABEL BEFORE EACH USE
PET USE APPLIES TO USE ONLY ON DOGS

FIRST AID	
If On Skin or Clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If In Eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If Inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
If Swallowed:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information contact: National Pesticide Information Center at 1-800-858-7378 between 6:30 am and 4:30 Pacific Time. After 4:30 call your poison control center.	
NOTE TO PHYSICIAN	
Contains Petroleum Distillate – vomiting may cause aspiration pneumonia.	

See side/back panels for additional precautions.

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PRECAUTIONARY STATEMENTS
Hazards To Humans & Domestic Animals

WARNING

Causes skin irritation. Do not get on skin or on clothing. Wear long sleeved shirt and long pants, sock, chemical resistant footwear and gloves. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes moderate eye irritation. Avoid contact with eyes. Harmful if inhaled. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

Environmental Hazards

This product is toxic to fish and other aquatic organisms. This pesticide is extremely toxic to fish. Use with care when applying in areas adjacent to any body of water. ~~Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when cleaning equipment or disposing of equipment washwater.~~ 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 crops or weeds. Do not apply this product or allow it to drift to crops or weeds on which bees are actively foraging. Additional information may be obtained from your Cooperative Extension Service. Apply this product only as specified on this label.

Physical or Chemical Hazards

Do not use or store near heat or open flame. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
SHAKE WELL BEFORE USE.

General Restrictions

Do not allow people or pets in treated areas until sprays have dried. Remove pets, birds and cover fish aquaria before spraying. Do not allow spray treatment to drift onto pastureland, cropland, poultry ranges or water supplies. Do not use on crops used for food, forage or pasture. Do not apply by air.

For Outdoor applications:

Do not water the treated area to the point of run-off. Do not make applications during rain.

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- 1) Treatment to soil or vegetation around structures;
- 2) Applications to lawns, turf, and other vegetation;
- 3) Applications to building foundations, up to a maximum height of 3 feet

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors and eaves) are limited to spot and crack-and-crevice applications, only.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

GENERAL USE DIRECTIONS:

Mixing Instructions: This is an easy-to-apply product that can be used to control nuisance insects. Apply with hand pressurized or power operated sprayers. Carefully measure and mix the amount of product and water as directed. Where appropriate, measure the area to be treated by measuring the length and the width then multiply to determine the square footage of the area. When mixing, fill the application equipment with half of the water first and then measure and add the appropriate amount of CT 10 followed by the remaining water. Shake or stir thoroughly to mix the product and water. Thorough spray coverage is necessary but do not allow run-off.

For maximum effectiveness, a combination of localized application and space treatment is recommended.

Do not use in food areas of food-handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served such as dining rooms, but excluding areas where foods may be prepared or held. In the home, remove or cover all food processing surfaces and utensils during treatment or thoroughly wash before use. Remove or cover exposed food prior to treatment.

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NON-FOOD/FEED AREAS include 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).

Dilution rates on this label will yield the following ready-to-use product:

Rate	Ounces of Concentrate Per Gallon of Finished Solution	% Permethrin
1:19	6.4	0.50%
1:39	3.2	0.25%
1:99	1.28	0.10%
1:199	0.64	0.05%
1:399	0.32	0.025%

The number in parentheses following dilution directions refers to the Permethrin concentrate in the diluted product.

INDOOR USE

SURFACE SPRAY: For initial cleanup of severe insect infestation, dilute at a rate of 1 part concentrate in 19 parts water (6.4 ounces per gallon) (0.5%).

For normal infestations and maintenance, dilute 1 part concentrate in 39 parts water (3.2 ounces per gallon) (0.25%).

To control *cockroaches, waterbugs, palmetto bugs, ants, silverfish, firebrats, spiders, crickets, millipedes, clover mites, cheese mites, granary weevils, rice weevils, confused flour beetles, rust red flour beetles, saw-toothed grain beetles, spider beetles, cigarette beetles, drugstore beetles, mealworms, grain mites and cadelles*, use a good sprayer adjusted to deliver a coarse wet spray. Direct the spray into hiding places, cracks and crevices, under pallets, around containers of stored foods, around the base of machinery, and behind shelves and drawers. Spray bookcases for silverfish. Spray ant trails, nests and points of entry. If surface application only is to be used, spray floors, walls and other surfaces applying at a rate of 1 gallon to 750 square feet.

To Control Centipedes, Ground Beetles, Pillbugs, Sowbugs, Scorpions & Ticks – Apply around doors and windows and other places where these pests may enter premises. Treat baseboards, storage areas and other locations where these pests are found.

To Control Fleas & Ticks – Remove pet bedding and destroy or clean thoroughly. Spray pet resting quarters. Adult fleas and larvae contacted by spray will be killed. Put fresh bedding down once spray has dried. Spray rugs and carpets where infestations are bad. Test delicate fabrics in an inconspicuous area prior to use.

To Kill Fleas & Ticks on Dogs - Dilute 1 part concentrate to 99 parts water (1.28 ounces per gallon) (0.05%). Using protective gloves (mitts), wet the animal by dipping or spraying. Reapply every 30 days, if necessary.

Do not use on dogs under 12 weeks old. Consult a veterinarian before using this product on medicated, debilitated, aged, pregnant or nursing animals. Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately.

Treatment of Flying Insects Resting Places – To aid in control of *mosquitoes, gnats, skippers*, treat walls, ceilings, moldings, screens, door frames, window frames, beams, light cords and similar resting places using a dilution of 1:19 (0.5%).

To Control Carpet Beetles – Spray edges of carpeting and under carpeting and rugs. Make localized application to floor and baseboards. Spray directly into cracks, closets and infested areas of shelving.

To Control Bedbugs – Spray mattresses lightly, particularly around tufts and seams. Take bed apart and spray in all joints. Treat baseboards, moldings and floors. Allow all treated articles to thoroughly dry before use.

To Control Clothes Moths – Remove any infested articles from storage, brush thoroughly and air for several hours in sunlight, if possible. Apply spray liberally to empty chests, closets, bureaus and other storages directing the spray into cracks, joints and crevices. After airing, infested articles may be treated lightly, keeping nozzle at least three feet from fabric to avoid staining.

To Kill Lice and Louse Eggs – Spray in an inconspicuous area to test for possible staining or discoloration. Inspect again after drying, then proceed to spray entire area to be treated. Spray from a distance of 8 to 10 inches. Treat only those garments and pairs of bedding, including mattresses and furniture that cannot be either laundered or dry cleaned. Allow all treated articles to dry thoroughly before use.

SPACE SPRAY: For initial clean out of severe insect infestation, dilute at a rate of 1 part concentrate to 19 parts water (6.4 fluid ounces per gallon) (0.5%). For normal infestations and maintenance, dilute 1 part concentrate in 39 parts water (3.2 ounces per gallon) (0.25%). Apply with mechanical or compressed air equipment (non-thermal) adjusted to deliver a fine mist. Close doors and windows and shut off ventilating systems. For rapid control of *house flies, fruit flies, gnats, mosquitoes, skipper flies, black flies*,

angoumois grain moths and tobacco moths, direct spray at an upward angle distributing it uniformly through the entire area at a rate of 1 ounce per 1,000 cu. ft. of space. Keep area closed for at least 10 minutes. Vacate areas after treatment and ventilate and sweep up dead insects before reoccupying.

For rapid kill of exposed or accessible stages of other insects named on this label, apply using conventional, mechanical or compressed air equipment (non-thermal), following directions for space spraying. Apply the above dilutions at a rate of 1 ounce per 1,000 cu. ft. of space.

ORNAMENTAL PLANTS:

Mix 0.32 ounce in 1 gallon of water. Do not use more CT 10 than recommended, as this may cause some plant injury. Use this dilution unless other instructions are given.

To protect plants in indoor landscaping, spray directly on insects. In the home, remove infested plants from living areas prior to application. Spray plants in an area not likely to be occupied by children or pets (particularly fish). When leaves dry, plants can be returned to original location. Use with care on ferns, palms and fuchsia. As with all plants, especially carnations, chrysanthemums and roses, there exist a wide variety of species and cultivars and therefore, a wide variety of susceptibility to injury. To ascertain possible phytotoxicity, spray a few plants as described above, wait 24 hours, and check for possible injury. Repeat applications may be necessary to control citrus black flies on non-bearing citrus and adult Japanese beetles on roses.

Plants	Insects
Ageratum, ardisia, aster, azalea, baby's breath, begonia, birdsnest fern, bleeding heart, carnation, chrysanthemum, coleus, crown of thorns, cockscomb, cyclamen, dracaena, dumbcane, English ivy, fuchsia, gladiolus, grape ivy, hypoestes, ivy, juniper, lily, marigold, orchid, palm pansy, peperomia, petunia, philodendron, piggyback plant, poinsettia, portulaca, pothos, prayer plant, purple passion, rabbits foot fern, rose, schefflera, snapdragon, snake plant, statice, velvet plant, verbena, zinnia	Aphids, armyworms, cankerworms (fall, spring), corn earworms, inchworms, Japanese beetles, leafminers, leafrollers, mealybugs, scales, spider mites, thrips (exposed), whiteflies
Chrysanthemums	Armyworms, cabbageworms, cutworms, leafrollers
Velvet plants	Fungus gnats

OUTDOOR USE

HOSE-END SPRAYER USE DIRECTIONS:

Mixing Instructions: Fill sprayer bottle halfway with water, then add 4 ounces of CT 10 to spray bottle. Add water to fill bottle. Shake well. Attach to hose and follow these simple instructions.

1. Make sure the hose-end sprayer is firmly connected to the hose.
2. Make sure the sprayer is in the OFF position. Turn water supply on at the faucet. For best results, turn hose faucet to maximum. Water pressure will build in the hose.
3. To apply product, turn the control valve to the ON position. Water and product are now being mixed at the proper rate.

LAWNS: To control *ants, armyworms, chiggers, chinch bugs, crickets, cutworms, fleas, grasshoppers, mosquitoes, sod webworms, sowbugs and ticks*, spray when pests first appear. For *sod webworms*, delay watering or mowing the treated area for 12 to 24 hours after treatment.

Spray grass starting at the edge of the lawn furthest from the faucet. Walk backwards away from spray mist toward faucet. This avoids contact of shoes and hose with treated grass. Always point sprayer away from body. Use when wind is calm to avoid splash back. Do not spray on a windy day. Sweep sprayer left and right to ensure an even coverage. Apply entire contents evenly over 1000 square feet of lawn.

To stop spraying, turn the control valve to the OFF position. Turn off water at the faucet. To relieve water pressure in hose, turn control valve to the ON position before removing from the garden hose.

ALLOW SPRAY TO THOROUGHLY DRY ON LAWN BEFORE PERMITTING ANIMALS OR CHILDREN TO ENTER TREATED AREA.

WHEN/WHERE TO SPRAY: To avoid drift, spray on calm days. **DO NOT** spray near fish ponds, streams or rivers as this product is toxic to aquatic life. **DO NOT** spray plants in the middle of the day in hot summer weather (i.e. above 85°F) as spray may burn the plants. For best results, spray when insects or damage are first observed.

Ornamentals and Hedges: To control *aphids, bagworms, eastern tent caterpillar, fall webworms, grasshoppers, mites, mosquitoes, orange striped oakworm, spittle bugs, whiteflies, yellownecked caterpillar, cutworms, leafhoppers, mealybugs, mimosa webworms, redhumped caterpillar and thrips (exposed)*: Apply spray thoroughly to all parts of hedges and bushes. Be sure to cover trunks, branches, inside and outside leaves. When spraying leaves, be sure to spray both upper and lower surfaces. Spray to penetrate dense foliage but avoid over spraying to the point of excessive runoff. To prevent being hit by spray, do not apply to overhead areas. Treat when pests appear and repeat at 7 to 10 day intervals, if needed.

PERIMETER: Spray surfaces of barns, dairies, poultry houses, swine and livestock housing and feed lots to control house flies, stable flies and other manure breeding flies. Also aids in control of cockroaches, ants, spiders, mosquitoes, crickets and face flies. Walk and spray at a steady pace. Spray walls and surfaces thoroughly but do not allow runoff to occur. Do not contaminate animal feed or water by spray.

For Temporary Reduction of Annoyance From flies, gnats & mosquitoes. In drive-in restaurants, drive-in theaters, golf courses, urban areas, parks, playgrounds and other recreational areas, dilute 1 part concentrate in 39 parts water (3.2 fluid ounces per gallon) (0.25%). Direct the spray into tall grass, shrubbery and around lawns, where these pests may hover or rest. Apply while the air is still and avoid wetting foliage. Application should be made prior to occupancy.

In the treatment of corrals, feedlots, swine lots and zoos: Cover any exposed water, drinking fountains and animal feed before applications. Fill the area with mist and direct the spray into tall grass, shrubbery and around lawns where the above pests may hover or rest. Apply while the air is still and avoid wetting foliage. In zoos, prevent exposure of reptiles to the product.

ORNAMENTAL PLANTS: - To protect ornamental plants including trees, shrubs, flowers, evergreens, foliage plants and ground covers, use as a contact and residual spray. Spray at the first sign of insects. Apply in the late afternoon or evening when the temperature ranges from 50°F to 80°F and when there is little or no wind. Spray at 4 to 8 day intervals if insect activity continues. Wet the plants thoroughly, but avoid runoff or dripping. Try to hit underside of leaves. Do not use more product than recommended as this may cause some plant injury.

Plants	Insects
Ageratum, Arizona cypress, aster, azalea, begonia, coleus, common ninebark, common snowberry, elm, exacum euonymous, English ivy, gladiolus, gold bells, hypoestes, ivy, lilac, marigold, mock orange, nannyberry, orchid, palm pansy, pea shrub, petunia, philodendron, poinsettia, rhododendron, rose, snapdragon, taxus, wax plants, weeping fig, zinnia	Aphids, bagworms, cicadas, corn earworms, fall canckerworms, inchworms, leafminers, leafrollers, mealybugs, spider mites, exposed thrips, whiteflies

ORNAMENTAL TREES – Use sufficient spray to obtain full coverage of all foliage. Avoid heavy wetting.

Plants	Insects
Birch	Leafminers
Cherry & honeysuckle	fall webworms
Conifers	Budworms
Douglas and Grand firs	Tussock moths
Elm	Elm leaf beetle, elm spanworms, fall webworms
Non-bearing citrus	citrus black flies
Oak	oakworms
Pine	pine moths, pine needle miners, pine beetles, needle scales
Tulip poplar	aphids

NUISANCE PESTS IN OUTDOOR AREAS:

For severe infestation, dilute 1 part concentrate in 19 parts water (6.4 oz per gallon of water) (0.5%) and treat 400 linear feet with a 6-inch spray band. For normal infestations, dilute 1 part concentrate in 39 parts water (3.2 oz per gallon) (0.25%).

Insects	Directions
Ants, crickets, earwigs, fleas, ticks	For localized infestations of these insects in areas where there are weeds or bushy non-crop areas, spray infested areas thoroughly. For ants, thoroughly wet hills and runways.
Tent Caterpillars	Apply when caterpillars are young and tents are first noticed. For best results, apply in the late afternoon or evening, when caterpillars have returned to their tents. Wet tents on all sides. A few caterpillars may be seen escaping from the tent, however, they should die within several hours.
Outside Surfaces of Buildings	
Ants, clover mites, crickets, earwigs, millipedes, sowbugs (pillbugs)	To help prevent infestation of buildings, treat the building foundation to a height of 2 to 3 feet where pests are active and may find entrance. Also,

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	apply as a residual spray to outside surfaces of buildings, patios, garages and other areas where these pests may be found.
Flies (cluster, house), gnats, flying moths, mosquitoes	As an aid in reducing annoyance from these insects, spray outside surfaces of screens, doors, window frames or wherever these insects may enter the home. Also treat surfaces around light fixtures on porches, in garages and other places where these insects alight.

LAWNS:

Use on Bent, Bermuda, Bluegrass, Dichondra, Fescue, Irish Moss, Merion and St. Augustine lawns.

Insects	Directions
Armyworms, ticks, cutworms, chinch bugs, fleas, sod webworms	Thoroughly wet down grass a few hours before applying. Home lawns should be no taller than 3 inches at time of application. Mix 3.2 fl. oz. per gallon of water (0.25%) and treat 1,000 sq. ft. Slightly more water may be used as long as the amount of product per area is the same. Delay watering or mowing for 24 hours after treatment. For heavy infestations, repeat application after 2 weeks.
Japanese beetle grubs, mole crickets	Lawns should be no taller than 3 inches at the time of application. Mix 1.28 fl. oz. per gallon of water (0.1%) and treat 1,000 sq. ft. Slightly more water may be used as long as the amount of product per area is the same. Irrigate with ¼ inch of water immediately after application. For heavy infestations, repeat application after 2 weeks.
Ants, Crickets, Grasshoppers	Thoroughly wet down grass a few hours before applying. Home lawns should be no taller than 3 inches at time of application. Mix 1.28 fl. oz. per gallon of water (0.1%) and treat 1,000 sq. ft. Slightly more water may be used as long as the amount of product per area is the same. For heavy infestations, repeat application after 2 weeks.
Fire Ants	Mix 6.4 fl. oz. in 1 gallon of water (0.5%). Apply at the rate of one gallon per mound as a gentle rain from a typical garden sprinkling can. Thoroughly wet the mound and surrounding area to a diameter of 4 feet. For best results, apply in cool weather, 65° to 80° F, or in early morning or late evening hours. Treat new mounds as they appear. Do not disturb the mound prior to treatment. Treat all mounds in the vicinity and treat all colonies which have not yet constructed mounds. Do not use equipment that produces a pressurized spray since this will disturb fire ants and cause migration, reducing product effectiveness.

TREES & SHRUBS:

Mix 1 fl. oz. in 3 gallons of water. Spray at the first sign of insects. Wet leaves and branches to the point of dripping. Try to penetrate dense foliage. Treat in late afternoon or evening when temperatures range from 50° - 75° F and when there is little or no wind. Repeat every 4 to 8 days if needed. Application can be made up to the day of collection.

Plants	Insects
Arizona cypress, azalea, birch, ornamental cherry, non-bearing citrus, conifers, elm, English ivy, euonymus, weeping fig, fir, honeysuckle, lilac, mock-orange, oak, palm, philodendron, pine, poinsettia, tulip, poplar, rhododendron, taxus	Aphids, bagworms, cicadas, fall cankerworms, fall webworms, inchworms, leafminers, leafrollers, mealybugs, spider mites, thrips (exposed), whiteflies
Conifer	Budworms
Elm	Elm leaf beetles, elm spanworms, fall webworms
Douglas and grand fir	Tussock moths
Non-bearing citrus	Citrus black flies
Oak	Oakworms
Pine	Pine beetles, pine moths, pine needleminers, needle scales

ROSES & FLOWERS:

Mix 1 fl. oz. in 3 gallons of water. Spray at the first sign of insects. Wet the plants to the point of dripping. Try to hit underside of leaves and penetrate dense foliage. Treat in late afternoon or evening when the temperature ranges from 50° - 75° F and when there is little or no wind. Repeat every 4 to 8 days as needed. Application can be made up to the day of collection.

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Plants	Insects
Ageratum, aster, azalea, begonia, coleus, common ninebark and snowberry, exacum, gladiolus, gold bells, hypoestes, ivy, lilac, marigold, mock-orange, nannyberry, orchid, pansy, pea shrub, petunia, poinsettia, rhododendron, rose, snapdragon, zinnia	Aphids, bagworms, cicadas, cankerworms (fall), inchworms, leafminers, leafrollers, mealybugs, spider mites, thrips (exposed), webworms (fall), whiteflies

TREATMENT OF ANIMALS AND ANIMAL QUARTERS:

PESTS	DILUTIONS (mix well)	HOW TO APPLY
PESTS ON LARGE ANIMALS (Dairy or Beef Cattle, Horses, Sheep and Goats)		
Horn Flies, Face Flies, Stable Flies, Mosquitoes, Lice, Mites, Ticks (including deer tick which may carry Lyme disease)	For severe infestations, dilute 1.28 oz per gallon of water (1 part concentrate to 99 parts water) (0.1%). For normal infestations, dilute 0.64 oz per gallon of water (1 part concentrate to 199 parts water) (0.05%).	Spray thoroughly to cover the entire animal. For lice or Mites, a second treatment is recommended in 14-21 days. Spray lactating dairy cows only after milking is completed.
Horn Flies, Face Flies, Stable Flies, Ear Ticks	Dilute 2 oz per gallon of water (.16%).	Spot Treatment – Low Pressure Spray – Apply ½ oz per ear or 1-4 oz on face or 12-16 oz along the backline.
Horn Flies, Face Flies, Horseflies, Ear Ticks	Dilute 8 oz in 5 gal oil (0.125%).	Backrubber – Keep backrubber charged. Results can be improved by forced use.
PESTS ON FARM PREMISES (Barns, Dairies, Loafing Sheds, Milking Parlors, Feedlots, Stables, Paddocks, Poultry & Livestock Housing)		
Horseflies, Stable Flies, Lesser Houseflies and other manure breeding flies, Fleas, Lice, Mites, Ticks (including deer tick which may carry Lyme disease). Aids in control of Cockroaches, Mosquitoes and Spiders	Dilute 3.2 oz per gallon of water (0.25%).	Spray walls and surfaces thoroughly, but do not let runoff occur. Spray about 1 gallon per 750-1000 sq. ft. Treat no more often than once every 2 weeks. Do not contaminate animal's feed or water by spray. Do not use in milk rooms.
PESTS IN CATTLE BARNs, HORSE BARNs, SWINE HOUSES, KENNELS, MILKING PARLORS, MILK ROOMS, DAIRIES, POULTRY HOUSES, FEEDLOTS, STABLES AND PADDOCKS		
Flies, Mosquitoes and Gnats	For initial clean out of severe insect infestation, dilute at a rate of 6.4 oz per gallon of water (1 part concentrate to 19 parts water) (0.50%). For normal infestations, dilute at a rate of 3.2 oz per gallon of water (1 part concentrate to 39 parts water) (0.25%).	FINE MIST – Apply directing the spray toward the ceiling and upper corners until the area is filled with mist. Use about 1 ounce per 1,000 cubic feet of space. For best results, close doors and windows before spraying and keep closed for ten to fifteen minutes. Vacate the treated area and ventilate before reoccupying.
PESTS ON SWINE AND POULTRY (Do not ship swine for slaughter within 5 days of last treatment)		
Mange Mites	Dilute 1.28 oz per gallon of water (1 part concentrate to 99 parts water) (0.10%)	Spray, dip or sponge animals. Retreat after 14 days, spraying walls and floor space and bedding to kill late hatching, developing stages.
Blowflies, Flies, Mosquitoes, Hog Lice, Fleas, Ticks (including deer tick which may carry Lyme disease)	Dilute 1.28 oz per gallon of water (1 part concentrate to 99 parts water) (0.10%)	Spray, dip or sponge to apply 1 pint per pig, especially around ears.
Poultry Mites, Northern Fowl Mites and Lice	Dilute 1.28 oz per gallon of water (1 part concentrate to 99 parts water) (0.10%)	Spray at the rate of 1 gal per 100 birds, with a fine mist. Spray roosts, walls and nests or cages.

Storage & Disposal

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

Pesticide Storage: Store in a cool, dry area. Always store pesticide in the original container. Store away from food and pet food.

Avoid extremes in temperature.

Pesticide Disposal and Container Handling: Nonrefillable container. Do not reuse or refill this container.

If Empty: Place in trash or offer for recycling if available.

If Partly Filled: Call you local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Optional Storage and Disposal instructions for Agricultural Use

Storage & Disposal

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

Pesticide Storage: Store in a cool, dry, secure area. Always store pesticide in the original container. Store away from food, pet food, feed, seed, fertilizers and veterinary supplies. Avoid extremes in temperature.

Pesticide Disposal: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or equivalent promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with appropriate spray oil and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local ordinances.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

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