

73049-419

09/29/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Nasser Assaf, Ph.D.  
Valent BioSciences Corporation.  
870 Technology Way  
Libertyville, IL 60048

SEP 29 2009

Dear Dr. Assaf:

Subject: Application for Pesticide Notification (PRN 98-10)  
Comply with Agency pyrethroid labeling letter dated June 4, 2009,  
Revise per Pesticide Registration Notice 2007-4 (Container Disposal),  
and update Warranty Statement  
Pramex TC Plus  
EPA Reg. No. 73049-419  
Your submission dated July 29, 2009

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated July 29, 2009 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records. When preparing the actual printed labels, please be aware that there is a typographical error on your label in one of the newly added precautions. Specifically, on page 2 toward the beginning of the Directions for Use, in the sentence that starts "All outdoor applications must be limited to spot..." revise "except for the following permitting uses" to read "except for the following permitted uses".

Sincerely,

*Dona R. Pelitt*

for

Richard Gebken  
Product Manager 10  
Insecticide Branch  
Registration Division (7505P)



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**ENVIRONMENTAL SCIENCES DIVISION**  
870 Technology Way, Suite 100  
Libertyville, IL 60048 • 800-323-9597

July 29, 2009

Document Processing Desk (NOTIF-Pyrethroid)  
Registration Division  
Office of Pesticide Programs (7504P)  
US Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202

ATTN: Richard Gebken  
Product Manager 13  
Insecticide Branch

SUBJECT: APPLICATION FOR PESTICIDE LABEL NOTIFICATION – No PRIA Service Fee Required  
Submission of Revised Labeling Per:  
- June 4, 2009 Environmental Hazard and General labeling for  
Pyrethroid Non-agricultural Outdoor Products  
- PR-Notice 2007-4, Container Disposal  
- PR-Notice 98-10, Warranty Statement update  
Prames TC Plus; EPA Reg. No. 73049-419

Dear Mr. Gebken:

This application for label notification for the above subject product is being submitted to comply with the Agency's letter of June 4, 2009 Environmental Hazard and General labeling for Pyrethroid Non-agricultural Outdoor Products Notification; PR Notice 2007-4, Labeling Revisions Required by the Final Rule "Pesticide Management and Disposal; Standards for Pesticide Containers and Containment Revision of Container Disposal and US EPA OPP Guidance on Warranty Statements (Oct. 17, 2006) among other minor changes which are clearly marked.

Pramex TC Plus; EPA Reg. No. 73049-419; is a liquid concentrate pyrethroid product for homeowners, indoor/outdoor use.

Due to the limited space on EPA Form 8570-1, Section II, the self certification statements are as follows:

\* See Letter

Agency's letter of June 4, 2009 Environmental Hazard and General labeling for Pyrethroid Non-agricultural Outdoor Products Notification

Notification of label change per June 4, 2009, letter from Environmental Protection Agency. This notification is consistent with the guidance in the June 4, 2009 letter and the requirements of EPA's regulations at 40 CFR part 156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR 156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

cc



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**Pramex® TC Plus**

- For Outdoor Residential/Homeowner Use Only
- [Low Odor Formula
- Easy To Apply
- Kills Termites On Contact
- For Use On And Around Buildings, Foundations, Porches, Wood Piles, Wood Fences, Decks & Patios
- Controls/Kills Wood Destroying Insects Including Termites, Carpenter Ants, Carpenter Bees, Powder Post Beetles And Other Listed Pests
- It's Easy To Protect Your Home From Home, Lawn And Garden Damaging Insects
- Controls Hard-To-Kill Insects For Up To 4 Weeks
- Creates An Insect Barrier Around Your Yard For Four Weeks
- Economical - For Termite Control, 1 Quart Makes Up To 5 Gallons
- Economical - For Termite Control, 1 Quart Treats Up To 25 Linear Feet
- Contains Pramex® Brand Permethrin - A Long Lasting Pyrethroid Insecticide Which Provides Contact And Residual Control]

**ACTIVE INGREDIENT:**

Permethrin* .....	10.0 %
<b>OTHER INGREDIENTS**:</b> .....	<u>90.0 %</u>
	100.0 %

\* Cis/trans ratio: max. 55% (+/-) cis and min. 45%(+/-) trans.  
 \*\*Contains petroleum distillates.

**PRECAUCION AL USUARIO:** Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada amplimente.  
**(TO THE USER:** If you cannot read English, do not use this product until the label has been fully explained to you.)

EPA Reg. No. 73049-419

EPA Est. No.

**KEEP OUT OF THE REACH OF CHILDREN  
 WARNING  
 See Side Panel for Additional Precautions**

<b>FIRST AID</b>	
<b>If On Skin or Clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If In Eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If Inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If Swallowed:</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of Medical emergencies or health and safety inquiries or in case of fire, leaking or damaged containers, information may be obtained by calling 1-877-315-9819.	
<b>NOTE TO PHYSICIAN</b>	
Contains petroleum distillate – vomiting may cause aspiration pneumonia.	

NET CONTENTS: 1 gallon (3.79 L)

**NOTIFICATION**

**SEP 29 2009**

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**PRECAUTIONARY STATEMENTS**  
**Hazards To Humans & Domestic Animals**

**WARNING**

Causes skin irritation. Do not get on skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes moderate eye irritation. Avoid contact with eyes. Harmful if swallowed or inhaled. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**Environmental Hazards**

This product is extremely toxic to fish. ~~Do not apply directly to water. Do not contaminate water when disposing of equipment washwater or rinsate.~~ Apply this product only as specified on this label. 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 drift to blooming crops or weeds if bees are visiting the treatment area.

**Physical or Chemical Hazards**

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

**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.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production or for research purposes. For outdoor use only, do not use in homes. Do not apply to pets.

This is an easy-to-apply product that can be used to control home-invading, wood-destroying, and lawn and garden insects. Apply by using a pump-up pressure sprayer, a hose-end sprayer, or watering can. Always use a clean sprayer. Carefully measure and mix the amount of product with water as directed. Use only in ventilated areas.

When mixing or applying, wear long sleeved shirt, long pants, socks, shoes and chemical resistant gloves. Do not use food utensils or cups for measuring. Spray with the wind to your back. Do not spray on windy days. Do not allow spray to contact food, food utensils or water supplies. Do not allow children or pets to go onto treated area until the treated areas such as grass or soil has dried.

Application is prohibited directly into sewers 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.

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

All outdoor application must be limited to spot or crack-and-crevice treatments only, except for the following permitting 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.

**HOW TO MIX AND APPLY**

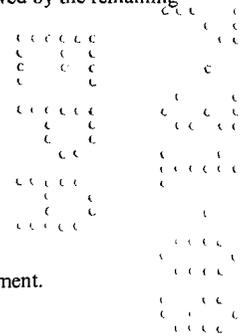
Mix the recommended amount of Pramex TC Plus per gallon of water and apply in accordance with the directions below. Where appropriate, measure the area to be treated by measuring the length and width then multiply to determine the square footage of the area. Apply Pramex TC Plus as a coarse spray with a pump-up, hose-end or other type of hand-held sprayer. When mixing, fill the sprayer with half of the water first and then measure and add the appropriate amount of Pramex TC Plus followed by the remaining water. Thorough spray coverage is necessary, but avoid spray run-off.

**MEASUREMENT CONVERSION CHART**

1 teaspoon = 0.17 fl. oz. = 5 ml.  
1 ounce = 6 teaspoons = 29.6 ml.  
1 gallon = 128 ounces = 3.79 liters

**SUBTERRANEAN TERMITES:**

- For outdoor, homeowner post-construction use only.
- If termites are found within the house or structure, contact a licensed pest control operator for treatment.
- DO NOT use indoors, under slabs or in crawl spaces.
- Do not spray on firewood.



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Kills and controls existing subterranean *Termites*. The active ingredient in this product forms a barrier in the soil that prevents termite attack. Diluted Pramex TC Plus [product] must be adequately dispersed in the soil to provide a barrier between the wood in the structure and the termite colonies in the soil. Barriers may be established in the soil on the outside perimeter of the house by trenching using a rate of 1 gallon of dilution per 5 linear feet per foot of depth. A complete termite barrier may require treatment to the inside perimeter of the foundation and to other critical interior areas. For these areas and if termites are found inside of the home, consult a licensed pest control operator for treatment.

**Trench Treatment:**

**Mixing Instructions:** Add 6.5 fl. oz. of Pramex TC Plus [product] to 1 gallon of water (0.5%) for each 5 linear feet [5 feet of trench length]. One quart of Pramex TC Plus makes 5 gallons of diluted material and treats 25 linear feet.

- Remove and discard all wood debris while digging trench.
- Poured concrete foundations - Dig a trench next to the foundation 4 inches deep and 6 inches wide or down to the top of the footing, which ever is less.
- Brick & block foundations - Dig a trench 12 inches deep and 6 inches wide. If the footing is more than 12 inches deep, make holes with a crowbar, pipe or steel rod about 1 foot apart that extend from the bottom of the trench to the top of the footing. Make holes closer in hard packed clay soils.
- To avoid shifting your house foundation, never dig below the top of the footing.
- Apply half the volume of diluted product with a sprinkling can (or pump up sprayer) along the length of the trench. Refill trench with soil mixing it with the remaining [other half of] diluted product.

Reapplication for subterranean *Termites* should only be made when there has been a disruption of the chemical barrier in the soil due to construction, excavation, landscaping, etc, or if termites reappear. Reapplication should be made as a spot treatment to those areas. Annual reapplication of entire premises must be avoided.

**NOTES:**

1. Do not treat soil in the vicinity of wells, cisterns, ponds or other bodies of water. For these situations, contact your County Cooperative Extension Agent or consult a commercial pest control service.
2. Do not apply product until locations of wells and utility lines (gas, water, sewer, cable and electric) are known and identified. Be careful not to apply product into wells or puncture utility lines.
3. Do not treat soil that is water saturated or frozen, or in any conditions where run-off or movement from the treatment area is likely to occur.
4. ~~Do not apply while it is raining.~~

When treating adjacent structure, 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 structures. 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 check for leaks. All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up. Do not allow people or pets to contact contaminated areas or to reoccupy contaminated areas of the structure until the clean up is complete.

Desired amount of linear feet to treat	Final Concentration	Amount of Pramex TC Plus	Finished amount of diluted product for treatment
5	0.5%	6.5 fl. oz.	1 gallon
10	0.5%	13 fl. oz.	2 gallons
25	0.5%	1 quart	5 gallons
50	0.5%	2 quarts	10 gallons
100	0.5%	1 gallon	20 gallons

**WOOD-DESTROYING INSECTS OUTDOOR USE:**

**Mixing Instructions:** Mix 6.5 fl. oz. of Pramex TC Plus per gallon of water (0.5%) to control above ground *Termites (Drywood, Formosan), Carpenter Ants, Carpenter Bees, Powder Post Beetles, False Powder Post Beetles, Deathwatch Beetles, Old House Borer and Ambrosia Beetles.*

Treat localized areas of infested wood. Spray or brush into areas where insects are suspected or known to be, for example holes, spaces between wooden parts of the structure, the space between different types of building materials, such as concrete and wood. Also spray exposed insects. 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. For these types of application consult a licensed pest control operator for treatment.

**Fences and Outdoor Wood Surfaces of Buildings:** Apply evenly on wood surfaces. A paintbrush (or pump up sprayer) may be used to ensure uniform application. Allow to dry then repeat to ensure the insecticide soaks into the wood.

**Wooden Posts (fence, deck, mailbox, etc):** Using a sprinkling can, pour 1/2 gallon of diluted product into the fence post hole and while refilling hole, add another 1/2 gallon to the fill soil so that all the soil is treated to form a protective barrier.

**Wood Piles and Stored Lumber:** Use a hose-end, pump sprayer or sprinkling can to deliver a coarse drenching spray to the soil beneath and around wood storage areas prior to stacking. Do not treat firewood directly.

**FOR Carpenter Bees:** Use a suitable sealant to fill carpenter bee holes when there is no evidence of bee activity, usually 24 hours after treating holes.

**HOSE-END SPRAYER USE DIRECTIONS FOR ORNAMENTAL AND LAWN PEST CONTROL:**

Pramex TC Plus can be used in hose end sprayers. Follow instructions on the hose end sprayer adjusting the dial to the desired application rate per gallon.

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 (25-65 psi). Water pressure will build in the hose. To avoid damaging delicate plants water pressure may need to be decreased. Water pressure should be enough to deliver spray in a fan pattern.
3. To apply product, turn the control valve to the ON position. Water and product are now being mixed at the proper rate.
4. Begin spray at farthest section of area to be treated and carefully move backwards avoiding sprayed areas.
5. Spray with wind at your back. Do not spray on windy days.
6. Spray until surface is slightly wet but not to the point of run-off. Over application may cause damage.

**ORNAMENTAL PLANTS**

When using a watering can, pump up or similar type of sprayer, mix Pramex TC Plus with water in the following manner:

Pramex TC Plus	Water	Percent
1-1/3 teaspoon (7 ml)	1 gallon (3.79 L)	0.02

**NOTE:** Do not use more Pramex TC Plus than recommended, as this may cause some plant injury. Use this dilution unless other instructions are given.

**CONTACT AND RESIDUAL SPRAY:** Apply a diluted spray of Pramex TC Plus. Use sufficient spray to obtain full coverage of all foliage.

**HOUSE PLANTS:** To protect plants in indoor landscaping, spray directly on insects to kill *Leafrollers*, *Armyworms*, *Cutworms*, *Cabbage Worms* on chrysanthemums; *Fungus Gnats* on velvet plants. Spray as directed above to control *Aphids*, *Armyworms*, *Japanese Beetles*, *Leafminers*, *Leafrollers*, *Mealybugs*, *Scales*, *Spider Mites*, *Spring Cankerworms*, *Exposed Thrips* and *Whiteflies* on the following plants:

Ageratum	English Ivy	Poinsettia
Ardisia	Fuchsia	Portulaca
Aster	Gladiolus	Pothos
Azalea	Grape Ivy	Prayer Plant
Baby's breath	Hypoestes	Purple Passion
Begonia	Ivy	Rabbits foot fern
Birds-nest fern	Juniper	Rose
Bleeding heart	Lily	Schefflera
Carnation	Marigold	Snapdragon
Chrysanthemum	Orchid	Snake Plant
Coleus	Palm	Statice
Crown of Thorns	Pansy	Velvet Plant
Cockscomb	Piperomia	Verbena
Cyclamen	Petunia	Zinnia
Dracaena	Philodendron	
Dumbcane	Piggy-back plant	

Remove infested plants from living areas prior to application. Spray plants outside 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 listed above, especially carnations, chrysanthemums and roses, there exists 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 Blackflies* on non-bearing citrus; *Adult Japanese Beetles* on roses.

**OUTDOOR ORNAMENTALS:** Use 1-1/3 teaspoon (7 ml) of Pramex TC Plus in one gallon of water. (0.02%)

**CONTACT AND RESIDUAL SPRAY:** Apply a finished spray of Pramex TC Plus. Use sufficient spray to obtain full coverage of all foliage. Spray in the late afternoon or evening when the temperature ranges from 50°F to 85°F and when there is little or no wind. Spray at the first indication of insect pests. Repeat treatment at intervals of 4 to 8 days if necessary. Pramex TC Plus application can be made up to the day of collection.

Spray as directed above to control *Aphids, Cicadas, Corn Earworms, Fall Cankerworms, Inchworms, Leafminers, Leafrollers, Mealybugs, Bagworms, Spider Mites, Exposed Thrips* and *Whiteflies* on the following plants:

Ageratum	Gladiolus	Pea shrub
Arizona Cypress	Gold bells	Petunia
Aster	Hypoestes	Philodendron
Azalea	Ivy	Poinsettia
Begonia	Lilac	Rhododendron
Coleus	Marigold	Rose
Common ninebark	Mock Orange	Snapdragon
Common Snowberry	Nannyberry	Taxus
Elm	Orchid	Wax plants
Exacum	Palm	Weeping fig
Euonymous	Pans	Zinnia
English Ivy		

**FOR ORNAMENTAL TREES GROWN AROUND THE HOME:** Use sufficient spray to obtain full coverage of all foliage. Avoid heavy wetting. Use to control: *Pine Moths, Pine Needle Miners, Pine Beetles* and *Needle Scales* on pine; *Budworms* on conifers; *Oakworms* on oak; *Fall Webworms* on cherry, elm and honeysuckle; *Aphids* on tulip poplar; *Citrus Black Flies* on non-bearing citrus; *Tussock Moths* on Douglas and grand firs; *Leafminers* on birch; *Elm Leaf Beetle* and *Elm Spanworms* on elms.

#### NUISANCE PESTS IN OUTDOOR AREAS:

Pest	Dilution	Directions
Ants, crickets, earwigs, fleas, ticks (lone star ticks, deer ticks, black legged ticks)	Mix 6.5 fl oz (192 ml) of Pramex TC Plus (this product) in one gallon of water (3.79 L) (1-2/3 fl oz (49 ml) per quart (0.95 L) (0.5%)	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. Repeat application as reinfestations occur but no more than once per week.
Tent Caterpillars	Mix 2.5 fl oz (74 ml) of Pramex TC Plus (this product) in one gallon (3.79 L) of water. (0.2%)	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.

#### NUISANCE PESTS ON OUTDOOR SURFACES OF BUILDINGS:

Ants, clover mites, crickets, earwigs, millipedes, sowbugs (pillbugs)	Mix 1-2/3 fl. oz. (8.35 ml) in 1 quart of water (0.5%) (Mix 6.5 fl oz (192 ml) of Pramex TC Plus (this product) in one gallon of water (3.79 L) )	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, apply as a residual spray to outside surfaces of buildings, patios, garages and other areas where these pests may be found. Repeat applications as reinfestations occur but no more than once per week.
Flies (cluster, house), gnats, flying moths	Mix 1-2/3 fl. oz.(8.35 ml) in 1 quart of water (0.5%) (Mix 6.5 fl oz (192 ml) of Pramex TC Plus (this product) in one gallon of water (3.79 L) )	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. Repeat application as necessary but no more than once per week.

#### FOR USE ON LAWNS

For control of *Ants (including Fire Ants when mound is treated), Armyworms, Chinch bugs, Crickets, Cutworms, Japanese Beetle Grubs, Grasshoppers, Mole Crickets* and *Sod Webworms*, consult the following chart:

PESTS		DILUTION	REMARKS
Armyworms Cutworms Chinch Bugs Japanese Beetle Grubs	Mole Crickets Sod Webworm	1.2 fl. oz. (7 tsp)/10 gal water/1000 ft <sup>2</sup> (35 ml/38 L water/93m <sup>2</sup> ) (0.009%)	For surface feeders (armyworms, cutworms, chinch bugs, sod webworms), delay watering or mowing for 24 hours. For subsurface feeders (Japanese beetle grubs, mole crickets), irrigate with ¼ inch of water immediately after application
Crickets Grasshoppers Ants (including Fire Ants)		3.5 fl. oz. (3 tsp) /3 gal water/1000 ft <sup>2</sup> (15 ml/11.4 L water/93m <sup>2</sup> ) (0.013%)	For best results, delay watering or mowing for 24 hours after treatment. (For fire ants, only aids in control)

Lawns should be no taller than 3 inches (7.6 cm) at time of application. Slightly more water may be used as long as the amount of product per area is as listed above. For heavy infestations, repeat application after two weeks.

Also for control of *Cutworms* on dichondra and Irish moss. Use as directed above for lawns.

**FOR APPLICATION ON VEGETABLES** (For Backyard Vegetable Gardens Only):

Prepare Pramex TC Plus as directed in the following chart. Use 0.25 gallons of finished spray per 110 square feet or one liter per 10.7 square meters of surface area.

Vegetable	Target Pest(s)	Remarks	Recommended Pramex TC Plus			
			Dilution	Use Rate	Finished Spray	
			tsp/gal	ml/gal	ml/liter	percent
Asparagus (pre-harvest)	Cutworm, Asparagus Beetle	Apply for uniform coverage as needed. Do not apply more than 4 applications per crop. Can be applied up to 3 days prior to harvest.	1	5	1-1/2	0.015
(post-harvest)	Larval stages of Asparagus Beetle, Tarnished Plant Bug, Lygus Bugs, Adult Japanese Beetle	Treat ferns or bush growth after spear harvest when insects are present.	1	5	1-1/2	0.015
Celery	Vegetable Leaf Miner, Cabbage Looper, Black and Granulate Cutworm, Fall, Beet and Southern Armyworm	Apply every 3-5 days or as needed. Can be applied up to 3 days prior to harvest. Do not make more than 10 applications per season.	2	10	2-3/4	0.03
Cole Crops: Broccoli, Brussels Sprouts, Cabbage, Cauliflower	Beet Armyworm, Diamond Back Moth, Imported Cabbageworm, Cabbage Aphid, Cabbage Looper	Apply every 5 days or as needed. Can be applied up to one day prior to harvest. Do not make more than 8 applications on Cauliflower, Brussels Sprouts and Broccoli and 10 applications on Cabbage.	1	5	1-1/2	0.015
Eggplant	Colorado Potato Beetle, Vegetable Leaf Miner	Apply for uniform coverage as needed. Do not exceed 16 applications. Can be applied up to 3 days prior to harvest.	2	10	2-3/4	0.03
Horseradish (foliar application)	Imported Crucifer Weevil	Apply as needed. Do not exceed 3 foliar applications. Can be applied up to 22 days prior to harvest.	2	10	2-3/4	0.03
Head Lettuce only (Do not use on leaf lettuce)	Cabbage Looper, Alfalfa Looper, Beet Armyworm, Corn Ear Worm, Tobacco Budworm	Apply every 5-10 days as needed. Do not make more than 10 applications per season. Can be applied up to 1 day prior to harvest.	2	10	2-3/4	0.03
Potatoes	Beet Armyworm, Colorado Potato Beetle, Potato Leafhopper, Potato Flea Beetle, Aster Leafhopper, Potato Aphid, Potato Tuberworm, Cabbage Looper, Cutworms,	Apply as needed. Do not apply more than 12 applications. Can be applied up to 7 days prior to harvest	2	10	2-3/4	0.03

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Vegetable	Target Pest(s)	Remarks	Recommended Pramex TC Plus Dilution Use Rate Finished Spray			
			tsp/gal	ml/gal	ml/liter	percent
	European Corn Borer, Potato Psyllid, Tarnished Plant Bug					
Peppers	Vegetable Leafminer, Cabbage Looper, Fleabeetle, Corn Earworm, Pepper Weevil, European Corn Borer	Apply as needed, but not more than 8 sprays per season. Can be applied up to 3 days prior to harvest	2	10	2-3/4	0.03
Spinach	Beet Armyworm, Corn Earworm, Cabbage Looper, Cutworms, European Corn Borer, Green Cloverworm, Leafhoppers	Apply for uniform coverage when needed but not more than 7 applications per season. Can be applied up to 7 days prior to harvest.	1	5	1-1/2	0.015
Sweet Corn	Corn Earworm, European Corn Borer, Fall Armyworm, Southern Armyworm	Apply every 5 days and when needed but not more than 6 applications per season. Can be applied up to 1 day prior to harvest.	2	10	2-3/4	0.03
Tomatoes (Do not apply on cherry tomatoes and varieties yielding less than tomatoes one inch in diameter.)	Beet and Southern Armyworm, Tomato Pinworm, Tomato Fruitworm, Horn Worms, Granulate Cutworms, Colorado Potato Beetle, Cabbage Looper	Apply for uniform coverage when needed but not more than 6 applications per season. Can be applied up to date of harvest.	2	10	2-3/4	0.03

**FOR TREE FRUIT AND NUT CROPS GROWN AROUND THE HOME** (Homeowner-Backyard use only):

Apply finished spray to trees until foliage is dripping wet.

Trees (Fruit or Nut)	Target Pest(s)	Remarks	Recommended Pramex TC Plus Dilution Use Rate Finished Spray			
			tsp/gal	ml/gal	ml/liter	percent
Almonds	Navel Orange Worm, Peach Twig Borer	Apply when insects appear. Do not make more than 2 applications during hull spilt and 5 applications per season. Can be applied up to 7 days prior to harvest.	3	15	4	0.04
Apples	Plum Curculio, Redbanded Leafroller, Rosyapple Aphid, Spotted Tentiform Leafminer, Tarnished Plant Bug, White Apple Leafhopper, Oblique- banded Leafroller, Green Fruitworm	Apply when insects appear. Repeat as required to maintain control. Do not make more than 3 applications per season. Do not apply after petal fall.	3	15	4	0.04
Peaches	Lesser Peachtree Borer, Peach Twig Borer, Plum Curculio, Tarnished Plant Bug, Green Fruit Worm, Oriental Fruit Moth	Apply when insects appear. Do not apply within 7 days of harvest. Do not make more than 8 applications per season.	3	15	4	0.04
Pears (dormant through delayed dormant)	Pear Psylla	Apply during the dormant through delayed dormant growth period only. Add, if desired, 8 oz. of spray oil to each gallon of Pramex TC Plus. Do not make more than 2 applications per season.	3	15	4	0.04
(summer)	Pear Psylla, Green Fruitworm, Codling Moth	Apply when needed. Do not apply more than 3 applications per season. Can be applied up to 14 days prior to harvest.	3	15	4	0.04

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**STORAGE AND DISPOSAL**

**Storage:** Store in a cool, dry area away from [inaccessible to] children and pets. Do not transport or store below 32°F. [Protect from freezing.] [Do not freeze.]

**Disposal:** *If empty:* Nonrefillable container. Do not reuse *or refill* this container. Place in trash or offer for recycling if available. *If partly filled:* Call your local solid waste agency [or 1-877-315-9819] ~~1-800-CLEANUP~~ for disposal instructions. Never place unused product down any indoor or outdoor drain.

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions of Sale and Limitation of Warranty and 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 of Sale and Limitation of Warranty and Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and ~~should~~ *must* be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Valent BioSciences Corporation. All such risks shall be assumed by the user or buyer.

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02-0658/R1

**[Alternate Bullet Points:**

- *Vegetable, Lawn And Garden Spray Concentrate*
- *It's The Least You Can Do For Your Plants*
- *For Use On Plants*
- *For Use Outdoors Around Building, Homes, In Small Flower And Vegetable Gardens And On Fruits, Nuts And Ornamental Trees*
- *Economical, 8 Oz. Makes Up To 48 Gallons*
- *Controls/Kills Home-Invading Pests*
- *Controls/Kills Garden Pests*
- *Use On Lawns, Gardens And Fruit Trees*
- *Safe On Over 60 Varieties Of Plants*
- *Controls Many Named Garden Insect Pests*
- *Controls Many Named Ornamental Insect Pests*
- *Plant Pest Control*
- *Vegetable Insect Pest Control*
- *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*
- *You Control The Pest, We Control The Spray]*

