

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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

OCT 3 1 2008

Mr. David L. Anderson Director, Manufacturing & Reg. Affairs Rainbow Treecare Scientific Advancements 2239 Edgewood Ave S St. Louis Park, MN 55426

RE: Notification of Alternate Brand Name: "BoltTM Systemic Tree & Ornamental Insecticide

EPA Reg. No.: 74779-6

Date of Submission: October 1, 2008

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated October 1, 2008, for the product Acephate Systemic Tree & Ornamental Insecticide. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Joyce Edwards of my staff at 703-308-5479.

Sincerely,

Linda Arrington

Notifications & Minor Formulations Team Leader

Registration Division (7505P)

Office of Pesticide Programs

Please read instructions on reverse before completing form.	Form Approved, OMB No. 2070-0	060			
United States	☐ Registration	OPP Identifier Number			
EPA Environmental Protection	on Agency				
Washington, DC 204					
Application	on for Pesticide - Section I				
1. Company/Product Number	2. EPA Product Manager	Proposed Classification			
74779 - 6	Venus Eagle	None Restricted			
4. Company/Product (Name) Acephate Systemic Tree & Ornamental Insecticide	PM#	None Restricted			
5. Name and Address of Applicant (Include ZIP Code)	6. Expedited Review. In accordance wit	h FIFRA Section 3(c)(3)			
Rainbow Treecare Scientific Advancements	(b)(l), my product is similar or identical in	composition and labeling			
2239 Edgewood Ave S	to:				
St. Louis Park, MN 55426	EPA Reg. No				
Check if this is a new address	Product Name				
<u></u>	Section – II				
Amendment – Explain below.	Final printed labels in response to	Agency letter dated			
Resubmission in response to Agency letter dated	"Me Too" Application	,			
Notification – Explain below. Explanation: Use additional page(s) if necessary. (For section I a	Other - Explain below				
Notification of alternate brand name "Bolt™ Systemic Tree & Orname					
This notification is consistent with the provisions of PR Notice 98-10 and the confidential statement of formula of the product. I understand that it understand that if this notification is not consistent with the terms of PR to enforcement action and penalties under section 12 and 14 of FIFRA.	is a violation of 18U.S.C. Sec. 1001 to willfully make any fa	alse statement to EPA. I further			
	Section – III				
Material This Product Will Be Packaged In: Child-Resistant Packaging Unit Packaging	. Water Soluble Packaging	2. Type of Container			
Yes* Yes	Yes Yes	Metal			
⊠ No ⊠ No	No No	Plastic			
*Certification must Unit Packaging wot.	No. per If "Yes" No. per container Package wgt container	Glass			
*Certification must Unit Packaging wgt. be submitted	container Package wgt container	Paper .			
3. Location of Net Contents Information 4. Size(s) Re	tail Container	Other –foil laminate film _abel Directions			
Label Container	S. Location of S				
10 ounces	· · · · · · · · · · · · · · · · · · ·	ling accompanying product			
6. Manner in Which Label is Affixed to Product ☐ Lithog ☐ Paper ☐ Stenci	glued				
Section - IV					
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)					
Name: David Anderson Titl	e Director, Manufacturing & Reg. Affairs	elephone No. (Include Area Code) 952-252-0541			
Certification 6. Date Application					
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 Stamped)					
2. Signature 3.	Title Director, Manufacturing & Reg. Affairs	((((
·	Date cross tober 1, 2008	· ·			

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete

White- EPA File Copy (original)

Yellow- Applicant Copy



October 1, 2008

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
2777 South Crystal Dr.
Arlington, VA 22202

RE: Acephate Systemic Tree & Ornamental Insecticide (EPA Reg. No. 74779-6)

Enclosed is a notification under EPA PR Notice 98-10 to make the following revision to our product label:

1. Notification of brand name: "BoltTM Systemic Tree & Ornamental Insecticide"

A clean copy of the revised label along with an 8570-1 form are enclosed.

Please call if you have any questions.

Sincerely,

David Anderson

Director, Manufacturing & Regulatory Affairs Rainbow Treecare Scientific Advancements

2239 Edgewood Ave. S.

St. Louis Park, MN 55426

Office: (952) 252-0541 Fax: (952) 252-0504 Cell: (612) 240-9345

Email: <u>Danderson@treecarescience.com</u>

BoltTM

Systemic Tree & Ornamental Insecticide

KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See Side/Back Panel for Additional Precautionary Statements, First Aid and Directions for Use

Bolt™ Systemic Tree & Ornamental Insecticide is absorbed through the plant root system and then moves throughout the plant, protecting it from the damage caused by sucking insects (aphids, lace bugs, leafhoppers, and thrips) and certain chewing insects (leafminers, leaf beetles, leaftiers, and caterpillars) as listed.

Active Ingredient	
Acephate (O,S-Dimethyl acetylphosphoramidothioate)	97.4%
Other Ingredients	2.6%
Total	100%

EPA Reg. No. 74779-6

EPA Est. No.

Net Contents: 283.5 g (10 oz)

Rainbow Treecare Scientific Advancements
2239 Edgewood Ave. South
Minneapolis, MN 55426
1-877-ARBORIST
1-877-272-6747
www.rainbowscivance.com

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FIRST AID: Acephate i	s an organophosphate, cholinesterase inhibitor
IF SWALLOWED	 Call 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 IN EYES	 Hold eye open and rinse slowly and gently with water for 15-20 minutes.
	 Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
	 Call poison control center or doctor immediately for treatment advice.
IF ON SKIN OR	Take off contaminated clothing.
CLOTHING	• Rinse skin immediately with plenty of water for 15-20 minutes.
	 Call poison control center or doctor immediately for treatment advice.
IF INHALED	Move person to fresh air
	• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
	 Call poison control center or doctor immediately for treatment advice.

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

HOT LINE NUMBER

For 24 hour medical emergency assistance (human or animal), or chemical emergency assistance (spill, leak or accident). Call CHEMTREC at 1-800-424-9300.

NOTES TO PHYSICIAN

This material contains a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure but decisions regarding treatment will usually need to be made before test results are available. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (PROTOPAM) is also antidotal and may be used in conjunction with atropine but should not be used alone.

PRECAUTIONARY STATEMENT HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are those made of any waterproof exacterial. If you want more options, follow the instruction for category A on an EPA chemical-resistant category selection sheet.

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves
- Shoes plus socks

In addition, all mixers and loaders and all applicators using low pressure hand wand application

equipment must wear:

• A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean water high mark. Do not contaminate water when cleaning equipment or disposing of wastes. Cover or soil-incorporate spills.

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 it to drift to blooming crops or weeds if bees are visiting the treatment area.

DIRECTIONS FOR USE

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

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Do not apply this product through any type of irrigation system.

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

For use on turf, use limited to sod farms and golf courses, except when applying to mound or spet treatment for fire ant and harvester ant control.

Do not apply using low pressure hand wand except for control of fire ants as a mound treatment and when used on ornamental trees, shrubs, and floral plants grown for non-agricultural or non-commercial use.

Not for indoor residential use. For greenhouse use, use is limited to commercial greenhouses for use on cornamental, floral and foliage plants.

Do not apply by air.

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AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, waterproof gloves, shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others to enter treated areas until sprays have dried.

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

Read and follow the entire label of each product to be used in the tank mix with this product.

SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions, (e.g., wind direction, wind speed, temperature, relative humidity) and method of application can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product.

- All application equipment must be properly maintained and calibrated using water as carrier. Do not apply this product as an ultralow (ULV) spray, or in any carrier other than water.
- Use the largest droplet size consistent with good pest control. Small droplets are more prone to spray drift and can be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
- Do not apply at wind speeds greater than 10 mph at the application site.
- Apply as close to target plans as practical to obtain a good spray pattern for adequate coverage.
- For airblast applications, direct spray above foliage and turn off outward pointing nozzles at row ends and outer rows.
- Do not apply at heights greater than 4 feet.

MIXING INSTRUCTIONS

Thoroughly clean all application components prior to mixing. Add approximately ½ of the required amount of water to the application tank and begin agitation. Add the required amount of BoltTM Systemic Tree & Ornamental Insecticide and mix thoroughly. Then add other additives and the remaining water. Maintain agitation during filling and application to ensure uniform mixture.

For application equipment that has minimal agitation, proper attention to mixing this product should be given. With such equipment, this product should be premixed with water to form a slurry prior to putting the product into the applicator. If premixing is not done, then adequate time should be allowed for the product to dissolve in the water prior to beginning applications.

SMALL VOLUME DILUTION CHART

Amount of product per 100	Amount of product per 25 gallons	Amount of product per 1 gallon
gallons of water	of water	of water
1/4 lb (113.4 g)	1 oz (28.3 g)	1/3 tsp (1.1 g)
½ lb (226.8 g)	2 oz (56.7 g)	2/3 tsp (2.3 g)
³ / ₄ lb (340.2 g)	3 oz (85.0 g)	1 tsp (3.4 g)
1 lb (453.6 g)	4 oz (113.4 g)	1 1/3 tsp (4.5 g)

NON-BEARING CITRUS DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS.

DDODLIGT DED	TION
PRODUCT PER TIMING DIRECTION ACRE)NS
Non-Bearing Citrus (including citrus nursery seedlings Aphids Grasshoppers (226.8 g) Apply for control of existing populations. The minimum spray interval for repeat applications is 3 days. Citrus Blackfly* ½ to ¾ pound (8-12 oz) (226.8 to 340.2 g) The high rate should be used when a heavy infestation of Citrus Blackfly is present. Begin applications when eggs or adults first appear. The minimum spray interval for repeat applications when eggs or adults first appear. The minimum spray interval for repeat application. Do not allow livestock to treated area applications is 7 days. Do NOT H. Citrus for on after treatments.	gallons of cre. dual confor th total not to iffed rate er acre. esidual depend coverage ount of coverage output of
Ants (excluding Fire, Carpenter, Harvester, and Pharaoh*) Foliar Spray ¾ lb (12 Apply for control of existing under prole populations hot and dry	ns made onged
Ants (excluding Mound Treatment - conditions	
Carpenter and Drench Method: ineffective	
Pharaon*) Mix ¼ ounce in 5	• • •
gallons of water. Apply 1 gallon of ants deep v	vithin

	mix to	each mound the nest.	
,	area by	y sprinkling	
•	mound	d until it is wet	•
	and tre	eat a four (4)	
	foot di	iameter circle	
·	around	i the mound.	

^{*}Not registered in CA for control of Citrus Blackfly and Harvester Ants.

NURSERY STOCK (NON-BEARING DECIDUOUS FRUIT TREES, NUT TREES AND VINES IN NURSERY FIELDS OR NON-BEARING ORCHARDS.)

PLANTS	INSECTS	AMOUNT OF	APPLICATION	APPLICATION
		PRODUCT PER	TIMING	DIRECTIONS
	,	ACRE	<u> </u>	
Nuresery Stock	Aphids	½ to 1 lb	Apply as needed for	Dilute in 50 to 200 gallons
(Non-bearing	Plant Bugs	(8 – 16 oz) (226.8	control of existing	of water per acre and spray
Deciduous Fruit	(Lygus)	to 453.6 g)	populations. The	using ground equipment.
Trees, Nut Trees,	Thrips		minimum spray	
Vines)			interval for repeat	,
Almond		•	applications is 7	
Apricot			days.	
Apple			uays.	
Cherry				
Kiwi				
Pear	'			
Pistachio				
Plum				
Prune				
Walnut				

USE PRECAUTIONS: For application only to non-bearing trees and vines in nursery fields or in non-bearing orchards. Do not apply to interplants or single trees in a bearing orchard. Do not harvest any fruit from sprayed trees for one-year after application. Do not allow livestock to graze treated areas.

SPECIALTY USES - NON CROP AREAS

PLANTS	INSECTS	AMOUNT OF PRODUCT PER ACRE	APPLICATION DIRECTIONS
Non Crop Areas (Field borders, fencerows, roadsides, ditchbanks, and borrow pits)	Grasshoppers	1/4 lb (4 oz) (113.4 g)	For early to mid-season application to grasshoppers in field borders, fencerows, roadsides, ditchbanks and borrow pits
			Apply in 10 to 20 gallons of water per acre and spray using ground equipment. Use the higher volumes when spraying heavier foliage.
			Do not graze or feed vegetation cut from treated areas.
	Fire Ants and Harvester Ants*	Use mound treatment- Drench Method: Mix ¾ ounce in 5 gallons of water. Apply 1 gallon of mix to each mound area by sprinkling mound until it is wet and treat a four (4) foot diameter circle around the mound.	For best results, apply in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.
			Grass in treated area may be injured. Do not treat mound more than once per season.

^{*}Not registered in CA for control of Harvester Ants.

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SPECIALTY USES - CONTAINER GROWN NURSERY STOCK (Arborvitae,

Azalea, Camellia, Rhododendron, Roses, Viburnum, and Yew)

Azaica, Camem	ia, Knododendro	ii, Ruses, vidui	num, and rew,	
PLANTS	INSECTS	AMOUNT OF	APPLICATION	APPLICATION
•		PRODUCT PER	TIMING	DIRECTIONS
		ACRE	<u> </u>	
Container Grown	Black Vine	3/4 lb	Application	Use the specified
Nursery Stock	Weevil,	(12 oz)	should be made by	amount per 100
Arborvitae	Strawberry Root	(334.2 g)	mid-September	gallons of water and
Azalea	Weevil		for greenhouse	thoroughly drench the
Camellia	,		stock and by mid-	root system.
Rhododendron		٠.	October for	
Roses	•		outdoor stock.	
Viburnum	'	,	Consult your local	
Yew			county extension	·
			agent for	,
			information on the	
	1		identification and	
			control of root	·
			weevils on	
			ornamentals. The	,
			minimum spray	
			interval for repeat	
		•	applications is 7	
			days.	
			days.	
	Ants (excluding	³ / ₄ lb	Apply as needed	-
	fire, harvester,			
	carpenter, and	(12 oz)	to control the pest. The minimum	
	pharaoh)	(334.2 g)		
	1	,	spray interval for	
			repeat applications	
<u> </u>	L	<u> </u>	is 7 days.	<u> </u>

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ORNAMENTAL TREE AND SHRUBS - SOIL INJECTION

PLANTS	INSECTS	AMOUNT OF PRODUCT	APPLICATION TIMING	APPLICATION DIRECTIONS
Ornamental Trees	Aphids	1/5 oz (5.7 g) per	Begin applications	NOTE: For optimal
and Shrubs	Bagworm	inch of trunk	when insects first	uptake, irrigate the
	Budworm	diameter (D.B.H.)	appear	treated area after
	Cankerworm			treatment to promote
	Carpenterworm	Use one packet		absorption into the
	Cuban Laurel	(10 oz) to treat 50	*.	root system. Do not
	Thrips	inches of trunk		apply more than once
	Gall Forming	diameter (D.B.H)		per month.
i	Insects	diameter (D.D.11)		Applications to dry
	Gypsy Moth		•	soil may decrease
	(larvae)			,
	Japanese Beetle	· ·		performance. Do not
	Lacebugs			apply to areas where
•				food crops are grown
	Leaf Beetles			(i.e., vegetable
	Leafhoppers			gardens, fruit trees,
	Leafminers			berry vines, etc.),
•	Leafrollers			children's play areas,
	Leaftier (larvae)			or animal runs. Do
	Lepidotera			not apply more than 5
•	(larvae)			lb. of product per acre
	Loopers			per application. Do
•	Maple Shoot			not apply more than 6
•	Moth		Ì	lbs of product per acre
	Oakworm			per year.
	Pine Coneworm	,	**	
	Pine Tip Moth			Rainbow Treecare
	(larvae)		· ·	l .
	Sawflies			does not recommend
	Spider Mites			applications be made
	Tent Caterpillar			to Huckleberry, Balm
	Tiger moth .			of Gilead,
	(larvae)	•		Cottonwood,
	Tussock Moth			Lombardy Poplar, and
	(larvae)	•	,	Viburnum suspensum
•	Webworm			
	Winter moth			Caution:
	(larvae)			Phytotoxicity has
	Zimmerman Pine			occurred on the
•	Moth (larvae)			following crabapple
	(vorieties: Hone
		}		Ichonoski,
			٠.	Majusfloriounda, Pinl
				Perfection, Red Wine
•			<u> </u>	and Snow Cloud.

APPLICATION METHOD

Basal System: Dilute (10 oz) (283.5 g) of product in 25 gallons of water to treat 50 inches of cumulative trunk diameter. A minimum of two (2) injections sites per inch of trunk diameter (D.B.H.) is required. For multi-stemméd trees and shrubs, use diameter of individual canes at soil line instead of DBH. Apply one (1) quart of diluted solution, the per injection site. Space injection sites evenly around the base of the tree no more than 6 to 12 inches out from the base. Maintain a low pressure and inject to a depth of six (6) inches.

Grid System: Use 1/5 oz (5.7g) per 100 sq. ft. of area under the dripline of the trees or shrubs. Dilute ¼ lb (4 oz) (113.4 g) of product in 8 gallons of water to treat 2000 sq. ft. of area under the dripline of the tree or shrub. Make a minimum of four (4) injections per 25 sq ft. of area under the tree of shrub, using a grid pattern. Apply at least six (6) oz of dilute solution per injection site. Maintain a low pressure and inject to a depth of six (6) inches.

 ${\bf ORNAMENTAL\ TREES\ AND\ SHRUBS-FOLIAR\ SPRAY-Maximum\ single}$

application rate is 1.0 lb active ingredient per acre.

	e is 1.0 lb active			
PLANTS	INSECTS	AMOUNT OF PRODUCT PER	APPLICATION TIMING	APPLICATION DIRECTIONS
		100 GALLONS		
Ornamental Trees	Aphids	1/4 lb	Begin treatments	Apply as a full coverage
and Shrubs	Bagworms	(4 oz)	when insects first	spray using a hydraulic sprayer. Rainbow
(Except	Birch Leafminer	(113.4 g)	appear. The minimum spray	Treecare does not
Flowering	Lace Bugs		intervals for repeat	recommend applications
Crabapple)	Leafrollers		applications is 3	be made to Huckleberry,
	Tent Caterpillars		days for rates up to	Balm of Gilead,
•	Douglas Fir	½ lb	and including 0.5 lb ai/acre and 7 days	Cottonwood, Lombardy Poplar, and Viburnum
	Tussock Moth	(8 oz)	for rates exceeding	suspensum.
	Larvae	(226.8 g)	0.5 lb.ai/acre.	
	Gypsy Moth	(======================================		For nursery crops, spray
	Larvae*			only a few plants and
	Webworms			observe for 2 weeks and
	Scale (Crawlers)	½ lb	Begin treatments	evaluate for phytotoxicity before treating the entire
	, ,	(8oz)	when crawlers first	crop.
		(226.8g)	appear. Repeat	
•		(==+++B)	applications every 2 weeks as needed to	The use of a sticker
			achieve control. The	improves control of gypsy
		•	minimum spray	moth larvae.
,			intervals for repeat	*Mist blower
			applications is 3 days for rates up to	application: Adjust rates to 1 lb per 100 gallons of
			and including 0.5 lb	water for Gypsy Moth
	,		ai/acre and 7 days	control.
·			for rates exceeding	Adjust rate to 3/4lb per
	•		0.5 lb.ai/acre.	100 gallons of water for
				tent caterpillar control.
	Ponderosa Pine	½ lb	Time of application	Apply as a full coverage
•	Needle Miner	(8oz)	is important. Consult your County	spray using a hydraulic sprayer.
		(226.8g)	Extension Agent for	· sprayer.
	·		proper timing. The	(,,,
			minimum spray	
			intervals for repeat applications is 3	(((
			days for rates up to	
			and including 0.5 lb	11
			ai/acre and 7 days for rates exceeding	() () () () () () () () () ()
			0.5 lb.ai/acre.	
	California	1/4 lb to 1/2 lb	Begin treatments	
1:	Oakworm	(4 to 8 oz)	when insects first	, , , ,
	Cankerworms	(4 to 8 02) (113.4 to 226.8g)	appear. Use the	
·	Cankerworms	(113.4 to 220.8g)	higher rate when	

(Spring and Fall)		larger larvae are present. The minimum spray intervals for repeat applications is 3 days for rates up to and including 0.5 lb ai/acre and 7 days for rates exceeding 0.5 lb.ai/acre.	
Nantucket Pine Tip Moth Larvae	% lb (12 oz) (340.2 g)	Time of application is important. Consult your County Extension Agent for proper timing. Repeat applications will be necessary for subsequent generations. The minimum spray intervals for repeat applications is 3 days for rates up to and including 0.5 lb ai/acre and 7 days for rates exceeding	Apply as a full coverage spray using a hydraulic sprayer.
Root Weevil Adults	% lb (12 oz) (340.2 g)	0.5 lb.ai/acre. Begin treatments when feeding damage first appears. Repeat applications every four weeks until the first heavy frost may be necessary for complete foliage protection. The minimum spray intervals for repeat applications is 3 days for rates up to and including 0.5 lb	Apply as a full coverage spray using a hydraulic sprayer.
Box Elder Bugs Budworms Leafhoppers Sawflies	% lb (12 oz) (340.2 g)	ai/acre and 7 days for rates exceeding 0.5 lb.ai/acre. Begin treatments when insects first appear. The minimum spray intervals for repeat applications is 3 days for rates up to and including 0.5 lb ai/acre and 7 days for rates exceeding 0.5 lb.ai/acre.	Apply as a full coverage of spray using a hydraulic of sprayers of the sprayer

	Japanese Beetles	1 lb	Begin treatments	·
	Elm Leaf Beetles	(16 oz) (453.6 g)	when insects first appear. Repeat applications every 2 weeks as needed. The minimum spray intervals for repeat applications is 3 days for rates up to and including 0.5 lb ai/acre and 7 days for rates exceeding 0.5 lb.ai/acre.	
Douglas Fir	Douglas Fir	½ lb	Application	Apply by ground as a
(Christmas Trees)	Needle Midge	(8 oz) (226.8 g)	should be made no more than 2 weeks prior to bud burst. For additional pest management	full coverage spray in 100 gallons of water using a hydraulic sprayer.
			information, consult your County Extension Agent The minimum spray intervals for repeat applications is 3 days for rates up to and including 0.5 lb ai/acre and 7 days for rates exceeding 0.5 lb.ai/acre.	
Flowering	Aphids	1⁄4 lb	Begin treatments	Apply as a full
Crabapples	Leafrollers Tent Caterpillars	(4 oz) (113.4 g)	as the insects begin to appear. The minimum spray	coverage spray using a hydraulic sprayer.
			intervals for repeat applications is 3 days for rates up to and including 0.5 lb ai/acre and 7 days for rates exceeding 0.5 lb.ai/acre.	Do not apply more often than 3 times in a growing season at a four (4) week interval
				Caution: Phytotoxicity has concurred on the following crabapple varieties: Hopa, Ichonoski, Caution, Red Wine, and Snow Cloud.
Crape Myrtle	Aphids	2 – 3 level tablespoons (0.6 to 0.9 oz) (17 to 25.5 g) per 1 tablespoon of water	As aphids begin to appear. The minimum spray intervals for repeat applications is 3 days for rates up to and including 0.5 lb	Make a gaint on slurry by mixing. Remove the loose bark from the ti μηκ areas to be treated. Completely paint a band around each trunk to a width twice its diameter.

GOLF COURSES AND SOD FARM TURFGRASS

- Do not allow livestock to graze treated areas
- Do not feed treated grass to livestock.
- Do not apply by air
- Do not apply more than 4 1/8 lbs product/acre (4.0 lbs ai/acre) to golf courses in a single application.
- Do not apply more than 3.1 lbs product/acre (3.0 lbs ai/acre) to sod farm turfgrass in a single application.
- The minimum spray intervals for repeat applications is 3 days for application rates up to and including 0.5 lb ai/acre and 7 days for rates exceeding 0.5 lb ai/acre.
- A 3-day pre-harvest (PHI) for harvesting sod.

PLANTS	INSECTS	AMOUNT OF PRODUCT PER 1000 Sq. Ft.	APPLICATION TIMING	APPLICATION RECOMMENDATIONS
Turf	Fall Armyworm	0.4 to 0.9 oz	Begin treatments when insects first	Dilute in 5 gallons of water to treat 1000 sq. ft.
(Golf Course and Sod	Yellow Striped Armyworm	(17 to 25.5 g)	appear. Repeat applications every 2	, maior so mour root 54, ris
Farm	Southern		weeks as needed.	
Turfgrass)	Armyworm	•		
	Cutworm	0.9 to 1.8 oz		
		(25.5 to 51 g)	,	
	Chinch Bugs	0.9 to 1.8 oz (25.5 to 51 g)	Apply every 10 to 14 days as needed for knockdown of	Dilute recommended amount of product in 1 to 15 gallons of water to
			adult populations.	treat 1000 sq. ft.
	Sod Webworm (Crambus spp.)	0.4 to 0.8 oz (17 to 34 g)	Begin applications when larvae first appear. Use the higher rate when quick knockdown is needed or with	(of())); (c) (); (c) (); (d) (
			heavy populations. Reapply every 7 days as needed. Do not repeat at more than 1 week intervals.	

	Leafhopper	³/4 OZ		
		(21.3 g)		
	Mole Crickets* Spittlebug*	0.8 to 1.4 oz (22.7 to 39.7 g)	Begin applications when insects first	Dilute recommended amount of product in 1 to
			appear. More than one application may	15 gallons of water to treat 1000 sq. ft.
			be needed throughout the	Apply during late
			growing season to obtain knockdown of existing	afternoon or early evening hours and following
	,		populations. Use the higher rate when	irrigation. Do not irrigate after application. The use
•			for heavy populations.	of a lemon fragrance in the spray mix may
•				enhance control by acting as a flushing agent and
				thus provide increased mole cricket contact. The
				following products have been shown to be effective
				flushing agents: Lemon Joy and Lemon Palmolive. The use rate for these
				lemon-scented products is 2 teaspoons per gallon of
				water for small total mix volumes or 6 fl. oz. per 50
				gallons of water for large total mix volumes.
	Greenbug	0.4 oz	Begin applications	Dilute product in 4 gallons
	(Schizaphis	(17 g)	when insects first appear. Reapply	of water to treat 1000 sq. ft.
	graminun) Grasshoppers		every 7 days as needed.	
				Do not mow turfgrass for at least 24 hours after
				application.
	Black Turfgrass	0.9 to 1.4 oz	Begin applications when insects or their	Dilute product in 5 gallons of water to treat 1000 sq.
•	Ataenius*	(25.5 to 39.7 g)	damage first appear.	ft. Irrigate lightly after application (not more than
•				½ inch). Use the higher rate for severe
:				infestations.
Dichondra	Cutworm	0.8 to 1.4 oz	Begin applications	Dilute product in 15
(Plant site for	Flea Beetle	(22.7 to 39.7 g)	when insects first	gallon's of water to treat
Golf Course and	Southern		appear. Reapply	1000 sq. ft.
Sod Farm	Armyworm		every 2 weeks as needed.	(((
Turfgrass)	Yellow Striped		110000	((((
	Armyworm			((((

^{*}Not registered in CA for control of Mole Crickets, Spittlebug, or Black Turfgrass Ataenius.

MOUND TREATMENT OF FIRE ANTS AND HARVESTER ANTS IN TURFGRASS

DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS. DO NOT FEED TREATED GRASS TO LIVESTOCK.

PLANTS	INSECTS	AMOUNT OF PRODUCT	APPLICATION TIMING	APPLICATION RECOMMENDATIONS
Turfgrass Residential, Recreational, and Commercial Turf	Imported Fire Ants and Harvester Ants*	Mound Treatment — Drench Method: Use ¾ oz (21.3 g) of product in 5 gallons of water. Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound.	For best results, apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.	Grass in treated areas may be injured. Do not treat mound more than one per season.

^{*}Not registered in CA for control of Harvester Ants

OUTDOOR AND PERIMETER SPRAY

Location	INSECTS	AMOUNT OF PRODUCT PER 1 (one) GALLON	APPLICATION TIMING	APPLICATION RECOMMENDATIONS
Outdoor and Perimeter Area	Wasp	1.2 oz (34 g)	Make treatments early in the morning or late in the evening, as wasps are less active at these times.	Apply as a spot treatment to the nest, nest entrance, and surrounding areas where the wasps may land.
	Ants (excluding Imported Fire, Carpenter, Pharoh, and Harvester Ants*)	1.2 oz (34 g)	Begin applications when insects or their damage first appear.	Use specified amount of product in one (1) gallon of water.
	Crickets Cockroaches Earwigs			Apply to a band of soil 6 to 10 feet adjacent to the structure and to a height of 2 to 3 feet on the foundation
	Pillbugs			where pests may be active or may find entrance. Also apply as a residual spray or with a paint brush to surfaces of buildings, window frames, shutters,
				entryways, screens, eaves, patios, garages, carports, around garage areas and other areas where these pests congregate.
	on residential turfgras		·	pests congregate.

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OUTDOOR FLORAL CROPS AND GROUND COVERS

PLANTS	INSECTS	AMOUNT OF PRODUCT PER 100 GALLONS	APPLICATION TIMING	APPLICATION RECOMMENDATIONS
Chrysanthemums	Aphids	½ lb	Begin treatments	Apply the specified amount
Dahlias	Thrips	(8oz)	when insects first	of product in 100 gallons of
Daisies	Lygus	(226.8g)	appear. Repeat applications as	water using a hydraulic sprayer.
Easter Lily			needed to achieve	· ·
Gladioli		The maximum	control. The	Multiple applications may
Gypsophila		amount of product	minimum spray interval is 3 days for	cause slight tip burn or
Pachysandra	,	to be applied on a per acre basis is not	application rates up	marginal leaf necrosis on
Pansy		to exceed 0.75 lb	to and including 0.5	some varieties. Test on a few plants to determine
Peony		ai/acre for plants	lb ai/acre and 7 days	varietal susceptibility.
Roses		grown for cut flower production	for rates exceeding 0.5 lb ai/acre.	ļ
Sedum	·	and 1.0 lb ai/acre		
Statice		for all other plants.		
Strawflower				
Yarrow				
Zinnia	·	·		•
Boston Ivy	Japanese	1 lb	Begin treatments	
Roses	Beetles	(16 oz)	when insects first	·
		(453.6 g)	appear. Repeat applications every 2	
			weeks as needed.	
•		The maximum '	·	
		amount of product		
		to be applied on a per acre basis is not		
		to exceed 0.75 lb		
		ai/acre for plants		
		grown for cut		
	,	flower production and 1.0 lb ai/acre		
		for all other plants.		

COMMERCIAL GREENHOUSE FLORAL AND FOLIAGE PLANT CROPS

Not for use in residential greenhouses

PLANTS	INSECTS	AMOUNT OF PRODUCT PER 100 GALLONS	APPLICATION TIMING	APPLICATION RECOMMENDATIONS
Roses	Leafrollers	½ to 3/4 lb (8 to 12 oz) (226.8 to 340.2 g)	Begin treatments when insects first appear. Use the higher rate when large larvae are present.	Apply the specified amount of product in 100 gallons of water using a hydraulic sprayer.
		The maximum amount of product to be applied on a per acre basis is not to exceed 0.75 lb ai/acre for plants grown for cut flower production and 1.0 lb ai/acre for all other plants.		
Foliage Plants	Aphids	½ lb	Begin treatments	Apply the specified
Anthuriums	Mealybugs	(8 oz)	when insects first appear. A repeat	amount of product in 100 gallons of water using a
Cacti	Scale (Crawlers)	(226.8 g)	application, at a 2	hydraulic sprayer. The
Orchids Poinsettia	Thrips Whiteflies	The maximum amount of product to be applied on a per acre basis is not to exceed 0.75 lb ai/acre for plants grown for cut flower production and 1.0 lb ai/acre for all other plants.	week interval, may be necessary for control of mealybugs, Scale crawlers, and whiteflies.	addition of a wetting agent may be required on difficult to wet foliage. Caution: Phytotoxicity has occurred on the following foliage plants: Bletchum gibbum, Cissus Antarctica, Ficus triangularis, Fittonia verschaffelii, Maranta leuconeura kerchoveana, Pachystachya lutea, Plectanthus australis, Polypodium aureus, Polystichum, Pteris (consideration of the consideration).
				As a precaution, spray only a few plants and wait for 2 weeks to observe any varietal phytotoxicity. Application on poinsettias after bract formation may
		,		result in Phytotoxicity on certain varieties.

Carnations	Aphids	½ lb	Begin treatments	Apply the specified
Chrysanthemums	Thrips	(8 oz)	when aphids first	amount of product in 100
Roses	•	(226.8 g)	appear. As the thrips first appear	gallons of water using a hydraulic sprayer.
		The maximum amount of product to be applied on a per acre basis is not to exceed 0.75 lb ai/acre for plants	or at the tight flower bud stage. Repeat applications may be necessary.	Applications to Carnations and Chrysanthemums more than once every 28 days may cause phytotoxicity.
		grown for cut flower production and 1.0 lb ai/acre for all other plants.		Caution: Phytotoxicity has occurred on the following Chrysanthemum varieties: Albatross, Bonnie Jean, Dixie, Garland, Gem, Iceberg, Pride, Showoff,
				Statesman, Tally Ho, Westward Ho and Wild Honey.
				As a precaution, spray only a few plants and wait for 2 weeks to observe any varietal phytotoxicity. Applications to Chrysanthemums and Roses with open flowers may result in flower damage.
		•		

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

STORAGE AND DISPOSAL

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

STORAGE

Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in a cool, dry place. Protect from excessive heat. Do not contaminate food or foodstuffs. Do not store or transport near feed or food. For help with any spill, leak, fire or exposure involving this material, call CHEMTREC at 1-800-424-9300

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited.

CONTAINER DISPOSAL

Bolt[™] Systemic Tree & Ornamental Insecticide Draft Label EPA Reg. No. 74779-6

Completely empty canister into application equipment. Do not reuse container. Dispose of empty canister in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Note: This product is sold by weight. Settling may have occurred during shipment.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Tree injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or tree conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS 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 RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS and seller harmless for any claims relating to such factors.

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