

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

June 18, 2009

Loveland Products, Inc, P.O. Box 1286 Greeley, Colorado 80632-1286

Subject:

Application for Pesticide Notification (PRN 98-10)

Carbaryl 4L

EPA Reg. No. 34704-447

Application Dated June 5, 2009

Dear Mr. Tice;

The Agency is in receipt of your filling of a revised Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action 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 703-305-6736 or electronically at Edwards.joanne@epa.gov.

Sincerely,

TrE

Joanne S. Edwards Insecticide-Rodenticide Branch Registration Division (7505P) Office of Pesticide Programs

Please read instructions on reverse L		<i>:</i>				
OFDA	United States Onmental Protection Washington, DC 20460	Agency	Form Approved	Registratio Amendme	n OPP k	ovel expires 2-28- lentifier Number
	Application	for Pesticide	- Section	I		
1. Company/Product Number 34704-447		John Heb	luct Manager ert		3. Proposed 0	Classification Restricted
4. Company/Product (Name) Carbaryl 4L		PM# 7				
5. Name and Address of Applicant // Loveland Products, Inc. P.O. Box 1286 Greeley, Colorado 80632-12	286	to:	. No	In accordance ilar Divientical		Section 3(c)(3) on and labeling
		Section - II	Name			
Resubmission in response to Notification - Explain below. Explanation: Use additional page Notification Per PRN 98- statement in a Jeffrey He	s) if necessary. (For section I	and Section II.)	ency letter dat le Too" Applica her - Explain be antee State	ation. Blow.	the EPA	Approved
	<u> </u>	Section - III				
1. Material This Product Will Be Pac	caged in:					
Yes ✓ No ✓ If "Yes	eckaging Yes No '' No. per ackaging wgt. container		aging No. per container	J PI	tainer etal astic ass aper ther (Specify)	
3. Location of Net Contents Informat	ion 4. Size(s) Retail	l Container	5. Lo	L cation of Label D	irections	
✓ Label · Container		1 & 2.5 gal.		On a Bookle	it	
6. Manner in Which Label is Affixed	to Product Lithogra Paper gl	ph ued d	Other Pressi	ure Sensitive Adhe	esive Booklet	·
		Section - IV				
1. Contact Point //Complete items do Name John T. Tice John.Tice@		<i>of individual to be co</i> it le Manager Registra		Tels		clude Area Code)
I certify that the statements I I acknowledge that any knowl both under applicable law.		I attachments theret			te. Rec	Application sived Stamped)

3. Title

5. Date

Manager Registrations

June 5, 2009

John T. Tice

EPA Form 8570-1 (Rev. 3-94) Previous editions are obsolete.

2. Signature

4. Typed Name!

White - EPA File Copy (original)

Yellow - Applicant Copy



Performance

Quality

Value

June 6, 2009

Doc. Processing Desk (NOTIF) Office of Pesticide Programs (7504-P) U. W. Environmental Protection Agency 2777 South Crystal Drive Arlington, VA 22202

RE: Change in Manufacturers Warrantee in accordance with PRN 98-10 for Carbaryl 4L, EPA Reg. No. 34704-447.

Dear Notification Desk:

Please accept this Notification which changes the Manufacturer's warrantee statement in the product identified above. This statement was approved by RD Management and a copy of that letter is attached for your information. To accomplish this change please find:

- 1. EPA Form 8570-1 Notification
- 2. Copy of the EPA Letter dated May 11, 2009
- 3. Two copies of the revised label.

If you have any questions, please feel free to call or contact me at 970-534-3415 or email at JOHN.TICE@CPSAGU.COM.

Sincerely,

John Tice

Manager Registrations

Loveland Products, Inc.

Attachments

NOTIFICATION

JUN 1 7 2009



CARBARYL 4L

For Agricultural And Commercial Use Only **N-Methyl Carbamate Insecticide**

ACTIVE INGREDIENT:

Carbaryl (1-naphthyl N-methylcarbamate)

INERT INGREDIENTS

KEEP OUT OF REACH OF CHILDREN CAUTION

EPA REG. NO. 34704-447

EPA EST. NO. 264-MO-003

NET CONTENTS 21/2 GALS. (9.46 L)

IHT

091108 V3D 06Y09

FORMULATED FOR

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing of spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves and shoes plus socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statement: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing 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.

FIRST AID

	
If swallowed:	Call a poison control center or doctor immediately for
	treatment advice.
	Have a 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.
	1
	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 a poison control center or doctor for treatment advice.
If on skin	Take off contaminated clothing.
or clothing:	Rinse skin immediately with plenty of water for 15-20
	minutes.
	Call a poison control center or doctor 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 by mouth-to-mouth, if
	possible.
	Call a poison control center or doctor for further treatment
	advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.

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

NOTE FOR PHYSICIAN: Carbaryl contains an N-methyl carbamate that inhibits cholinesterase. Atropine is antidotal.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic and estuarine invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Discharge from rice fields may kill aquatic and estuarine invertebrates. Do not contaminate water by cleaning equipment or disposal of wash waters.

BEE CAUTION

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops and 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.

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 States or Tribe; consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard comains requirements for the protection of agricultural workers on farms, foracto, 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 of this product 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 12 hours.

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

- · Coveralls,
- · 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. The area being treated must be vacated by unprotected persons. Keep unprotected persons out of treated areas until sprays have dried.

GENERAL INFORMATION

This product is a suspension of a microfine carbaryl insecticide in an aqueous medium. It is dispersible in water and may be applied by ground or air.

PREPARATION OF SPRAY

Before using, agitate, stir or recirculate product in container to assure product uniformity. Be certain mix tanks and entire spray system are clean and free from foreign matter. Flush with clean water. Fill tank ½ to ¾ with desired amount of water. Begin agitating tank and slowly add the required amount of this product. Add the remaining volume of water. Continually agitate spray during mixing and application to assure a uniform suspension. Do not store spray mix for prolonged periods. Prepare only as much spray mix as can be applied on the day of mixing.

PRODUCT COMPATIBILITY

When diluted with an equal volume of water, this product may be tank mixed with a wide range of pesticides. If compatibility with another product and the resulting crop response are unknown, the combination should be tested on a small scale. Do not mix this product with diesel fuel, kerosene, fuel oil or aromatic solvents.

When tank mixing, first add this product to at least an equal volume of water, mix thoroughly, and then add combination products. Do not apply this product in a tank mix unless previous experience indicates that the mixture is effective and will not result in application problems, excessive residues, or plant injury. Observe all precautions and limitations on labeling of all products used in mixtures.

This product is unstable under highly alkaline conditions and is not effective if used with alkaline materials such as Bordeaux, lime-sulfur and casein-lime spreaders.

APPLICATION

For all applications, use sufficient spray volume to obtain thorough and uniform coverage. Calibrate spray equipment to deliver the required volume. Use 50 mesh strainers in spray system and 25 mesh slotted strainers behind nozzles.

To clean spray system after use, drain and flush with a water and detergent mixture. Rinse thoroughly with clean water. Refer to the storage and Disposal section for disposal instructions.

Note: Staining may occur on certain surfaces such a stucco, brick, cinder block, and wood. Spray deposits on painted or strained surfaces or finishes (i.e., cars, houses, trailers, boats, etc.) should be immediately removed by washing to prevent

discoloration. Avoid applications to surfaces where visible spray residues are objectionable.

Ground Application

Apply in sufficient volume for adequate coverage on all crops and sites. To prepare small volumes of spray mixture, use ¹/₃ fl. oz. (approximately 2 teaspoons) of this product in an adequate amount of water and apply to 500 sq.ft. where rates of 1 quart per acre are indicated.

Aerial Application

For adequate distribution, use at least 10 gallons of spray mixture per acre for application for tree and orchard crops or at least 2 gallons of spray mixture per acre for application to other crops.

APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION

Apply this product only through sprinkler, including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; flood (basin); furrow; border; or drip (trickle) irrigation system(s). Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration, you should confact State Extension Service specialists, equipment manufacturers or other experies;

Do not connect an irrigation system (including) greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

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

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER GYSTEMS

Note: Loveland Products, Inc. does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options before electing to make such a connection.

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction.

As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quickclosing check valve to prevent the flow of fluid back toward the injection pump.

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

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

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

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

SPRINKLER CHEMIGATION

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

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

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

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

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

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

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

Mix in clean supply tank the recommended amount of this product for acreage to be covered, and needed quantity of water.

This product should not be tank-mixed with other pesticides, surfactants or fertilizers unless prior use has shown the combination noninjurious under your conditions of use.

Follow precautionary statements and directions for all tank-mix products. On all crops, use sufficient gallonage of water to obtain thorough and uniform coverage, but not cause runoff or excessive leaching. This will vary depending on equipment, pest problem and stage of crop growth. Application of more or less than optimal quantity of water may result in decreased chemical performance, crop injury or illegal pesticide residues.

Meter this product into the irrigation water uniformly during the period of operation.

Do not overlap application. Follow recommended label rates, application timing, and other directions and precautions for crop being treated.

Provide constant mechanical agitation in supply tank on keep this product suspended throughout application operations.

Resistant Species

All references to armyworm on the clops listed below refer to the species, Pseudaletia unipuncta. Except where indicated otherwise, this product is not registered for the control of other armyworm species. Regional differences have been noted in the susceptibility of certain strains of fall armyworm, diamondback moth, Colorado potato beetle and Southern green stink bug to carbaryl. If local experience indicates inadequate control, use an alternative pecticide.

CAUTIONS AND RESTRICTIONS

Carbaryl 4L insecticide is a suspension of microfine brand carbaryl insecticide in an aqueous medium. It readily disperses in water to form a 35743 which may be applied by air or ground.

PLANT RESPONSE PRECAUTIONS

Application to wet foliage or during periods of high humidity may cause injury to tender foliage. Do not use on Boston Ivy, Virginia creeper and maidenhair fern as injury may result. Carbaryl may also injure Virginia and sand pines. The use of adjuvants may increase the potential for crop injury to sensitive crops.

PREHARVEST AND GRAZING RESTRICTIONS AND LIMITATIONS

Tolerances established under the Federal Food, Drug and Cosmetic Act permit the sale of labeled crops bearing probable carbaryl residues when this product is used in accordance with the label directions. If used as directed, treated forage may be grazed or used as feed for dairy and meat animals without causing illegal residues in meat or milk. Do not apply at greater rates or at more frequent intervals than stated on the label. To do so may result in illegal residues in crops, meat, and milk.

Do not use reclaimed irrigation water from crops treated with carbaryl or crops for which carbaryl tolerances are not established.

Do not plant rotational food and feed crops not listed on this or other carbaryl labels in carbaryl treated soil.

FRUIT, VEGETABLE, GRAIN CROPS, & TOBACCO
Begin application when insect populations reach recognized economic threshold levels. Consult the Cooperative Extension Service, or other qualified authorities to determine appropriate threshold levels for treatment and specific use information in your area. Where a dosage range is indicated, use the lower rate on light to moderate infestations, young plants and early instars and use the higher rate on heavy infestations, mature plants, advanced instars and adults. Thorough and uniform spray coverage is essential for effective control.

CROP	INSECT	QTS. OF THIS PRODUCT/ACRE	SPECIFIC DIRECTIONS	,
Asparagus	Asparagus beetle, cutworms, Apache cicada	1 to 2	Repeat applications as necessary up to a tot harvest or a total of 5 times per crop but no every 7 days. For cutworm control, this prod	t more often than once luct is most effective
	,	2 to 4	against species which feed on the upper po Application to ferns or brush growth following	ng harvest of spears:
			Repeat applications as necessary but not modays. Do not make more than a total of 5 ap spears and ferns combined.	
	e than a total of 6 quarts per acre before harvest of sp	ears.		2721
	e than a total of 10 quarts per acre per year. In 1 day of harvest.			3333
Broccoli,	Flea beetles, Harlequin bug, Leafhoppers,	½ to 1	Repeat applications as needed up to a total of	
Brussels Sprouts,	Armyworm, Aster Leafhopper, Corn earworm,	1 to 2	often than once every 7 days.	3.3
Cauliflower,	Diamond back moth, Fall armyworm, Imported		Do not apply more than a total 556 guarts p	er acre par crop.
Cabbage,	cabbageworm, Lygus bugs, Spittlebugs, Stink	·	[3373
Chinese	bugs, Tarnished plant bug		133333	, , , , , , , , , , , , , , , , , , ,
abbage,			3,,	
Collards, Kale,)))
Cohlrabi,) · · · · · · · · · · · · · · · · · · ·	3 3 1
Mustard		l		, .
Greens	<u> </u>			111)
	e than a total of 6 quarts per acre per crop.			1123
	ge, Collards, Kale, and Mustard Greens, do not apply wi			1 23
	sels Sprouts, Cabbage, Cauliflower, and Kohlrabi, do r			3 3 3 10
arrots, Parsnips,	Flea beetles, Leaf hoppers	½ to 1	Repeat applications as necessary up to a tot	al of 8 times but not mo
larden Beets,	Armyworm, Aster leafhopper, Colorado potato	1 to 2	often than once every 7 days.	
iorseradish,	beetle, Corn earworm, Cutworms, European corn		For cutworm control, this product is most e	
ladishes,	borer, Fall armyworm, Lace bugs, Lygus bugs,		which feed on the upper portions of the plar	t.
lutabagas,	Spittlebugs, Stink bugs, Tarnished plant bug			
Salsify, Potatoes		<u> </u>		
	e than a total of 6 quarts per acre per crop.			•
	in 7 days of harvest.			
Cucumber,	Pickleworm,	½ to 1	Repeat applications as necessary up to a tot	al of 6 times but not mo
Aelons,	Melonworm		often than once every 7 days.	
Pumpkins,	Cucumber beetles, Flea beetles, Leafhoppers,	1	For optimum control of squash bugs, apply	
Squash	Squash bugs		thorough coverage and time sprays for early afternoon.	

	•	QTS. OF THIS	
CROP	INSECT	PRODUCT/ACRE	SPECIFIC DIRECTIONS
_egume Vegetables		½ to 1	Repeat applications as necessary up to a total of 4 times but not mor
	beetles, Grape colapsis, Green cloverworm,		often than once every 7 days.
Soybeans	Japanese beetle, Mexican bean beetle,		For cutworm control, this product is most effective against species
Kidney beans	Velvetbean caterpillar		which feed on the upper portions of the plant.
Navy beans	Corn earworm	½ to 1½	Use lower rates for light to moderate populations and smaller instars
Cowpea	Alfalfa caterpillar, Colorado potatoto beetle,	1	and provide maximum survival of beneficial insects and spiders.
Southern pea	Flea beetles, Leafhoppers, Three cornered		Use the higher rates for heavy populations and larger instars.
ield pea	alfalfa hopper, Thrips, Western bean cutworm	*·	
_entils	Armyworm, Cutworms, European corn borer,	1 to 1½	,
	Fall armyworm, Stink bugs, Tarnished plant bug,		
	Webworms		
	Alfalfa looper (suppression), Cowpea curculio	1½	
	(suppression), Painted lady (Thistle caterpillar),		
Do not use on	Pea leaf weevil, Pea weevil, Saltmarsh caterpillar,		
entils in California	Woollybean caterpillar, Yellow-striped armyworm		
	California only:	1½.	
	Corn earworm (suppression), Lima bean		
	podborer (suppression), Lygus bugs		
	(suppression), Stink bugs (suppression)		
Do not apply with seed, or hay.	in 14 days of grazing or harvest for forage or within 3		ລ <u>ູ້</u> ຈັງ
 Do not apply with seed, or hay. 		days of harvest of to 7½	Up to 2 applications per crop may be made but not more often than
• Do not apply with seed, or hay. Olives	in 14 days of grazing or harvest for forage or within 3		Up to 2 applications per crop may be made but not more often than once every 14 days.
Do not apply with seed, or hay. Dlives Do not apply monor apply monor apply with	in 14 days of grazing or harvest for forage or within 3 Scale insects (olive scale, black scale) e than a total of 15 quarts per acre per crop. in 14 days of harvest.	5 to 7½	Up to 2 applications per crop may be made but not more often than once every 14 days.
 Do not apply with seed, or hay. Olives Do not apply mor Do not apply with Tomato, Eggplant, 	in 14 days of grazing or harvest for forage or within 3 Scale insects (olive scale, black scale) e than a total of 15 quarts per acre per crop. in 14 days of harvest. Colorado potato beetle, European comborer,		Up to 2 applications per crop may be made but not more often than once every 14 days.
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Do not apply with seed, or hay. Olives Do not apply more Do not apply with Tomato, Eggplant, Pepper	in 14 days of grazing or harvest for forage or within 3 Scale insects (olive scale, black scale) Ethan a total of 15 quarts per acre per crop.	5 to 7½ 1 to 2 ½ to 1	Up to 2 applications per crop may be made but not more often than once every 14 days. Repeat applications as necessary up to a total of 3 times but not mor often than once every 7 days. Thorough coverage is essential to affectively suppress stink bugs. When disease transmission is suspected, monitor fields following application and retreat if reinfestation occurs but not more often than once every 7 days.
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Do not apply with seed, or hay. Olives Do not apply more Do not apply with Tomato, Eggplant, Pepper Do not apply more Do not apply with Tomato, Eggplant, Pepper	in 14 days of grazing or harvest for forage or within 3 Scale insects (olive scale, black scale) Ethan a total of 15 quarts per acre per crop.	5 to 7½ 1 to 2 ½ to 1 2 1 to 2	Up to 2 applications per crop may be made but not more often than once every 14 days. Repeat applications as necessary up to a total of 7 times but not more often than once every 7 days. Thorough coverage is essential to effectively suppress stink bugs. When disease transmission is suspected, monitor fields following application and retreat if reinfestation occurs but not more often than once every 7 days. For cutworm control, this product is most effective against species which feed on the upper portions of the plant. OBSERVE BEE CAUTION. Repeat applications as needed up to a total of 4 times but not more often than once every 14 days. Optimum timing and good coverage are essential for effective control for optimum chinch bug control, use 1½ to 2 ground equipment to apply at least 20 gallons of water per acre and direct spray toward stat to provide thorough coverage. For optimum European corn borer control, do not apply in less than a gallons of water per acre by air and 15 gallons of water by ground. For Western bean cutworm, treat when infestation averages 15% and
Do not apply with seed, or hay. Dives Do not apply more Do not apply with formato, Eggplant, Pepper Do not apply more Do not apply with formato, Edgplant, Pepper	in 14 days of grazing or harvest for forage or within 3 Scale insects (olive scale, black scale) Ethan a total of 15 quarts per acre per crop.	5 to 7½ 1 to 2 ½ to 1 2 1 to 2	Up to 2 applications per crop may be made but not more often than once every 14 days. Repeat applications as necessary up to a total of 7 times but not more often than once every 7 days. Thorough coverage is essential to effectively suppress stink bugs. When disease transmission is suspected, monitor fields following application and retreat if reinfestation occurs but not nice often than once every 7 days. For cutworm control, this product is most effective against species which feed on the upper portions of the plant. OBSERVE BEE CAUTION. Repeat applications as needed up to a total of 4 times but not more often than once every 14 days. Optimum timing and good coverage are essential for effective contro For optimum chinch bug control, use 1½ to 2 ground equipment to apply at least 20 gallons of water per acre and direct spray toward state to provide thorough coverage. For optimum European corn borer control, do not apply in less than gallons of water per acre by air and 15 gallons of water by ground. For Western bean cutworm, treat when infestation averages 15% and at 90% to 100% tassel emergence. Treatment after 100% silk
seed, or hay. Olives Do not apply mor. Do not apply with Tomato, Eggplant, Pepper	in 14 days of grazing or harvest for forage or within 3 Scale insects (olive scale, black scale) Ethan a total of 15 quarts per acre per crop.	5 to 7½ 1 to 2 ½ to 1 2 1 to 2	Up to 2 applications per crop may be made but not more often than once every 14 days. Repeat applications as necessary up to a total of 3 times but not more often than once every 7 days. Thorough coverage is essential to affectively suppress stink bugs. When disease transmission is suspected, monitor fields following application and retreat if reinfestation occurs but not nicre often than once every 7 days. For cutworm control, this product is most effective against species which feed on the upper portions of the plant. OBSERVE BEE CAUTION. Repeat applications as needed up to a total of 4 times but not more often than once every 14 days. Optimum timing and good coverage are essential for effective control for optimum chinch bug control, use 1½ to 2 ground equipment to apply at least 20 gallons of water per acre and direct spray toward stat to provide thorough coverage. For optimum European corn borer control, do not apply in less than a gallons of water per acre by air and 15 gallons of water by ground. For Western bean cutworm, treat when infestation averages 15% and at 90% to 100% tassel emergence. Treatment after 100% silk emergence will reduce effectiveness.
 Do not apply with seed, or hay. Olives Do not apply more Do not apply with Tomato, Eggplant, Pepper Do not apply more Do not apply with Field corn, 	in 14 days of grazing or harvest for forage or within 3 Scale insects (olive scale, black scale) Ethan a total of 15 quarts per acre per crop.	5 to 7½ 1 to 2 ½ to 1 2 1 to 2	Up to 2 applications per crop may be made but not more often than once every 14 days. Repeat applications as necessary up to a total of 7 times but not more often than once every 7 days. Thorough coverage is essential to effectively suppress stink bugs. When disease transmission is suspected, monitor fields following application and retreat if reinfestation occurs but not rilere often than once every 7 days. For cutworm control, this product is most effective against species which feed on the upper portions of the plant. OBSERVE BEE CAUTION. Repeat applications as needed up to a total of 4 times but not more often than once every 14 days. Optimum timing and good coverage are essential for effective contro For optimum chinch bug control, use 1½ to 2 ground equipment to apply at least 20 gallons of water per acre and direct spray toward state to provide thorough coverage. For optimum European corn borer control, do not apply in less than a gallons of water per acre by air and 15 gallons of water by ground. For Western bean cutworm, treat when infestation averages 15% and at 90% to 100% tassel emergence. Treatment after 100% silk

ROP	INSECT	QTS. OF THIS Product/Acre	SPECIFIC DIRECTIONS
ield corn,			by air per acre.
opcorn cont'd.:			For cutworm control, this product is most effective against species
			which feed on the upper portions of the plant.
Do not apply more	e than a total of 8 quarts per acre per crop.		
Do not apply with	in 48 days of harvest of grain and fodder or within 1	4 days of harvest or	grazing of forage or silage.
ax	Armyworm	1 to 1½	Up to 2 applications per crop may be made but not more often than
•	·		once every 14 days.
o not use	'		
California.			
	e than a total of 3 quarts per acre per crop.		
	n 42 days of harvest for seed or straw.		·
rain sorghums	Armyworms, Chinch bugs, Corn earworm,	1 to 2	Repeat applications as necessary up to a total of 4 times but not mor
	Fall armyworm, Stink bugs, Webworms		often than once every 7 days.
	Southwestern corn borer	1½	Direct spray into forming heads for optimum control of insects
	Cutworms	2	attacking heads.
		•	For optimum chinch bug control, use high gallonage ground application
			at the base of plants.
			For cutworm control, this product is most effective against species
		<u> </u>	I which feed on the upper portions of the plant.
Do not apply more	e than a total of 6 quarts per acre per crop.		urazing of forage or silage
	in 21 days of harvest for grain or fodder or within 14		
eanuts	Blister beetles, Mexican bean beetle	½ to 1	Repeat applications as necessary up to a total of 5 times but not mor
	Alfalfa caterpillar, Bean leaf beetle, Cucumber	1	often than once every 7 days.
•	beetles, Green cloverworm, Japanese beetle,		For optimum control of thrips, use directed or banded sprays with
	Leafhoppers, Rednecked peanut worm, Three		hollow cone spray nozzles.
•	cornered alfalfa hopper, Thrips, Velvet bean		Ensure adequate coverage for the underside of lagves.
	caterpillar		For cutworm control, this product is most effective against species
	Armyworm, Corn earworm, Fall armyworm,	1 to 11/2	which feed on the upper portions of the plant.
	Stink bugs, Webworms		
D	Whitefringed beetle adults, Cutworms	2	
	e than a total of 8 quarts per acre per crop.		. , , , , , , , , , , , , , , , , , , ,
	ponse precautions.		, · · · · · · · · · · · · · · · · · · ·
ice	in 14 days of harvest. Armyworm, Chinch bugs, Fall armyworm,	1 to 1½	The te Constinctions now area may be made but not more often then
ice ,	Leafhoppers, Stink bugs	1 10 172	Up to 2 applications per crop may be made but not more often than o
	Tadpole shrimp	1½	every 7 days. California only: For optimum tadpole shrimp control, apply to water
	ladpole Sittliff	1 /2	when pest first appears.
Do not apply mor	e than a total of 4 quarts per acre per crop.	<u> </u>	when pest hist appears.
	I shrimp, crabs and crayfish.		
JAUTIUN, IVIAY KII	i Silililip, ciaus aliu Ciaylisii.	ation of this product o	

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CROP	INSECT	QTS. OF THIS PRODUCT/ACRE	SPECIFIC DIRECTIONS
Small Fruits and Berries: Caneberries, Blueberries, Cranberries, Grapes,	European fruit lecanium, European raspberry aphid, Flea beetles, Grape leaf folder, Grape leaf roller, Japanese beetle, Leafhoppers, Leafrollers, Meadow spittlebug, Omnivorous leaftier, Rose chafer, Snowy tree cricket, Strawberry bud weevil, Strawberry clipper,	1 to 2	OBSERVE BEE CAUTION Repeat applications as necessary up to a total of 5 times but not more often than once every 7 days. For cutworm control, this product is most effective against species which feed on the upper portions of the plant. In grapes for grape leaffolder control, apply before first brood larvae
Strawberries	Strawberry fruitworm, Strawberry leafroller, Strawberry weevil, Western grape leaf skeletonizer, Western yellowstriped armyworm		emerge from rolls. In grapes, do not concentrate spray on the bunch or visible residues may result.
	Blueberry maggot, Cherry fruitworm, Cranberry fireworm, Cranberry fruitworms, Cranberry twig girdler, Elm spanworm, Gypsy moth, Spaganothus worm, Tarnished plant bug	1½ to 2	
	Eight-spotted forester, Cutworms, Grape berry moth, June beetles, Omnivorous leafroller, Orange tortrix, Raspberry fruitworm,	2 .	
	Raspberry sawfly, Redbanded leafroller, Saltmarsh caterpillar		, , , , , , , , , , , , , , , , , , ,
Do not apply within Gugar beets	e Early Dawn and Sunrise varieties of strawberries. 7 days of harvest. Armyworm, Beet leaf beetle, Fall armyworm, Flea beetles, Leaf hoppers, Webworms Cutworms	1 to 1½	Repeat applications as necessary up to a total of 3 times but not mo often than once every 14 days
Do not apply more	than a total of 3 quarts per acre per crop.		which feed on the upper portions of the plant.
Do not apply within	1 28 days of harvest for roots or forage.		, , , , , , , , , , , , , , , , , , , ,
Sunflower Do not use in California.	Stem weevil, Sunflower beetle Cutworms, Armyworm, Fall armyworm, Sunflower moth	1 to 1½ 1½	Up to 2 applications may be made but not more offen than once ever 7 days. For cutworm control, this product is most effective against species which feed on the upper portions of the plant.
Do not apply more	than a total of 3 quarts per acre per crop.		
Do not apply within	1 30 days of grazing or harvest for forage or within 60		
Sweet Corn	Armyworm, Chinch bugs, Corn earworm, Corn rootworm adults, Fall armyworm, Flea beetles, Japanese beetle, Sap beetles, Southwestern corn borer, Leafhoppers European corn borer Western bean cutworm, Cutworms	1 to 2	OBSERVE BEE CAUTION Repeat applications as necessary up to a tot of 8 times but not more often than once every 3 days. Optimum timin and good coverage are essential for effective control. For insects attacking silks and ears, insecticide sprays should be applied starting when first silks appear and continuing until silks begin to dry During silking, the minimum retreatment interval (3 days) may not provide adequate levels of protection under conditions of rapid growth
			or severe pest pressure. The use of an alternative product should be considered in conjunction with this product. For optimum chinch bug control, use ground equipment to apply at least 20 gallons of water per acre and direct spray toward stalk to provide thorough coverage. For optimum European cornborer control, do not apply in less than 3 gallons of water per acre by air and 15 gallons of water by ground. For Western bean cutworm, treat when infestation average at 15% an 90% to 100% tassel emergence. Treatment after 100% silk emergence will reduce effectiveness.

CROP	INSECT	QTS. OF THIS PRODUCT/ACRE	SPECIFIC DIRECTIONS
Sweet Corn cont'd.:			For optimum cutworm control, apply in a 12-inch band, over the row,
			using sufficient volume of water to obtain thorough coverage.
	•	·	For broadcast application, use at least 20 gallons by ground or 5 gallons by air per acre.
			For cutworm control, this product is most effective against species
	·		which feed on the upper portions of the plant.
• Do not apply more	than a total of 16 quarts per acre per crop.	<u>'</u>	
 Do not apply within 	2 days of harvest of ears, within 14 days of harvest or	grazing of forage, or	
Sweet potatoes	Corn earworm, Cucumber beetles, Flea beetles,	1 to 2	For foliar sprays, repeat applications as necessary up to a total of 8
	Sweet potato hornworm, Sweet potato weevil,		times but not more often than once every 7 days.
,	Whitefringed beetle, Tortoise beetles		
- Do not apply mare	Yellowstriped armyworm	2	
 Do not apply more Do not apply within 	than a total of 8 quarts per acre per crop with in-sea	son sprays.	
Tobacco	Budworms, Fall armyworm, Tobacco flea beetles,	1 to 2	Plant bed and Field Treatment
100000	Hornworms, Japanese beetle, June beetle,	1	Repeat treatments as necessary up to a total of 4 times per crop but
	Suckfly		not more often than once every 7 days
			Use lower rate on young plants (up to knee height). Use at least 10
			gallons of prepared spray per acre. Begin treatments when worms are small.
· Do not apply more	than a total of 8 quarts per acre per crop.		ວ າ ວ
 Observe plant respert)))) · · · · · · · · · · · · · · · ·
 Tobacco may be ha 	rvested on the day of treatment.		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
			111151 51113
TREE FRUIT AN	ID NUT CROPS))
		verage. This will var	y depending on the pest and its severity, the tree conolitions, size, density,
•	OTC OF THIS		2223
	QTS. OF THIS		**

85°F. Consult with your County Extension Service or other experts for advice on the proper use of this product.

• Do not apply more than a total of 15 quarts per acre per crop.

PRODUCT/ACRE

1 to 3

SPECIFIC DIRECTIONS

Do not make more than a total of 8 applications per crop.

Do not apply within 3 days of harvest.

APPLES ONLY

For Fruit Thinning

Note: 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 trees or weeds if bees are visiting the treatment area. Applications must be timed to coincide with periods of minimum bee activity, between late evening and midnight. If weeds (particularly dandelions) are in bloom, mow the cover crop on the orchard floor and borders prior to the application to remove weed blooms and reduce bee foraging. Remove all bee hives from the orchard area to be treated prior to the application. Notify beekeepers and surrounding orchardists of planned applications 24-48 hours in advance.

Apply 1 to 3 quarts per acre. Use higher rates on difficult to thin varieties and lower rates on easy to shin; varieties.

Apply to apples between 90% petal fall and up to 16 mm fruit size. Use sufficient water volume to ensure thorough coverage.

Avoid spraying to runoff. Direct spray volume to upper 2 3 of tree canopy and reduce spray coverage to lower 1 3 of tree canopy or possible over-thinning may occur. Tree age, variety, nutrition, previous crop, pruning, bloom, and degree of set influence fruit thinning results. Exercise caution to avoid possible over thinning. Avoid application when temperatures exceed

Dandelions on the orchard floor are a main attractant to bees during and shortly after the apple blooming period. To control dandelions and other broadleaf weeds, apply a labeled 2,4-D in the fall after apple harvest or in the spring prior to bloom. Refer to restrictions pertaining to 2,4-D applications.

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		QTS. OF THIS	
CROP	INSECT	PRODUCT/ACRE	SPECIFIC DIRECTIONS
Apples, Pears,	White apple leafhopper	½ to 1½	OBSERVE BEE CAUTION
Loquats,	Apple aphid, Codling moth	1 to 3	On apples, avoid use during the period from full bloom until 30 days
Crabapple,	Apple aphid, Apple maggot, Apple mealy bug,	1½ to 3	after full bloom unless fruit thinning is desired. Use for pest control
Oriental pears ·	Apple rust mite, Bagworms, California pearslug		during this period also may result in fruit removal.
	(pear sawfly), European apple sawfly, Eyespotted		Repeat applications as necessary up to a total of 8 times per crop
	bud moth, Fruittree leafroller, Gypsy moth,		(including thinning sprays on apples) but not more often than once
	Japanese beetle, Lesser appleworm, Lygus bugs,		every 14 days.
	Orange tortrix, Pearleaf blister mite, Pear psylia,		For psylla control, apply when eggs hatch or young nymphs are
	Pear rust mite, Periodical cicada, Plum curculio,		present.
	Red-banded leafroller, Rosy apple aphid, Scale		For scale control, apply when crawlers are present.
	insects (Forbes scale, Lecanium scale, San Jose		
	scale), Tarnished plant bug, Tentiform leafminers,	1	
	Woolly apple aphid, Yellowheaded fireworm		
• Do not use on nea	re between the tight flower cluster up to the 20 mm f	ruit cizo	

- Do not use on pears between the tight flower cluster up to the 20 mm fruit size.
- . Do not use on quince.
- . Do not apply more than a total of 15 quarts per acre per crop.
- Do not make more than a total of 8 applications per crop.
 Do not apply within 3 days of harvest.

3 days of harvest.	
Apple pandemis, Black cherry aphid, Cherry	2 to 3
fruitworm, Cherry maggot (Cherry fruit fly),	
Codling moth, Cucumber beetles, Eastern tent	
caterpillar, Eyespotted bud moth, European earwig,	
Fruittree leafroller, Green fruitworm, Gypsy moth,	
Japanese beetle, June beetle, Lesser peachtree	
borer, Mealy plum aphid, Orange tortrix, Oriental	
fruit moth, Peach twig borer, Periodical cicada,	
Plum curculio, Prune leafhopper, Redbanded	
leafroller, Rose chafer, Scale insects (Brown soft	
scale, Forbes scale, Lecanium scale, Olive scale,	
Oystershell scale, San Jose scale), Tarnished plant	
bug, Tussock moth, Variegated leafroller	
California only:	
Black cherry aphid, Cherry fruitworm, Cherry	3 to 4
maggot (Cherry fruit fly), Codling moth, Cucumber	
beetles, Eyespotted bud moth, European earwig,	
Fruittree leafroller, Green fruitworm, Mealy plum	
aphid, Orange tortrix, Oriental fruit moth, Peach twig	•
borer, Scale insects (Brown soft scale, Forbes	
scale, Lecanium scale, Olive scale, Oystershell scale,	
San Jose scale), Tarnished plant bug, Tussock moth	
Peach twig borer, Scale insects (Brown soft scale	4 to 5
Forbes scale, Lecanium scale, Olive scale,	
Oystershell scale, San Jose scale)	
than a total of 14 quarts per acre per crop.	

OBSERVE BEE CAUTION

Repeat applications as necessary up to a total of 3 times per crop but not more often than once every 7 days. An additional application at the dormant or delayed dormant timing may be made? For optimum scale control, apply when grawlers are present. For lesser peachtree borer, best results have been found by thoroughly spraying limbs and tree trunks at weekly intervals, during moth flight.

OBSERVE BEE CAUTION

Repeat applications as necessary up to a total of 3 times per crop but not more often than once every 14 days. An additional application at the dormant or delayed dormant timing may be made.

For optimum scale control, apply when crawlers are present.

For dormant or delayed dormant timing, apply in combination with recommended dormant oil. Refer to the dormant oil product label or additional use directions and restrictions.

- Do not apply more than a total of 14 quarts per acre per crop.
 Do not apply more than a total of 5 quarts per acre at the dormant or delayed dormant timing.
- Do not apply more than a total of 9 quarts per acre during the production season.
- Do not apply within 3 days of harvest. In California do not apply within 1 day of harvest

. Do not apply within 14 days of harvest.

ORAGE CROP	•		
ROP	INSECT	QTS. OF THIS Product/Acre	SPECIFIC DIRECTIONS
Alfalfa, Clovers,	Blister Beetles, Mexican been Beetle	½ to 1	OBSERVE BEE CAUTION.
irdsfoot trefoil	Alfalfa caterpillar, Bean leaf beetle, Cucumber	1	Observe plant response precautions.
11431001 1161011	beetles, Green cloverworm, Japanese beetle,	. '	On dense growth, use 25 to 40 gallons of water per acre with ground
	Leafhoppers, Three cornered alfalfa hopper,		equipment to ensure adequate coverage.
	Thrips, Velvet bean caterpillar		For alfalfa weevil larvae, if pretreatment damage is extensive, cut
	Alfalfa weevil larvae, Armyworm, Cloverhead	1 to 1½	alfalfa and treat the stubble. This product is not effective against adu
	weevil, Corn earworm, Egyptian alfalfa weevil	1 10 172	alfalfa weevils.
•	larvae, Essex skipper, European alfalfa beetle,		For cutworm control, this product is most effective against species
	Fall armyworm, yellow striped armyworm		which feed on the upper portions of the plant.
•	Alfalfa weevil larvae (west of the Rocky Mountains)	1 to 1½	
	Alfalfa weevil larvae (east of the Rocky Mountains)	1½	
	than once per cutting.		•
	quarts per acre per cutting.		
	e a temporary bleaching of tender alfalfa foliage.		
Do not apply with	7 days of harvest or grazing.		
asture, Grasses	Armyworm, Chinch bugs, Essex skipper, Fall	1 to 1½	Up to 2 applications per year may be made but not mose often than on
Grown for Seed	armyworm, Striped grass looper, Thrips, Range		every 14 days.
•	caterpillar, Range cranefly, Ticks		To control thrips in grasses grown for seed use high spray pressure t
			improve penetration into roots.
D	11111		Carefully mark swaths to avoid over-application.
	otal of 3 quarts per acre per year. n 14 days of harvest or grazing.		, , , , , , , , , , , , , , , , , , ,
Rangeland	Black grass bug, Grasshoppers, Mormon cricket,	½ to 1	Do not make more than 1 application per year.
tangelanu	Range caterpillar, Range crane fly	72 10 1	Carefully mark swaths to avoid over application.
	Ticks	1	י בי פי פור מיינים איני מיינים איני מיינים איניים איניים איניים איניים איניים איניים איניים איניים איניים איני
Do not apply more	than 1 quart per acre per year.		3733 333
	or grazed the same day as treatment.		
NONCROPLAN	D		٠ ١٦٦٦
		QTS. OF THIS	9 J)
ROP	INSECT	PRODUCT/ACRE	SPECIFIC DIRECTIONS
Conservation	Black grass bug	¼ to ½	Up to 2 applications per year may be made but not more often than one
Reserve Program,	Mormon cricket, Range caterpillar, Range crane	½ to 1	every 14 days.
creage Set-aside	fly		Carefully mark swaths to avoid over-application.
rogram, Acreage	Ticks	1 to 1½	
Vasteland,			
Rights-of-Way,			
ledgerows, Ditch-	·	1	
anks, Roadsides		<u> </u>	
	than a total of 3 quarts per acre per year.		
Ho not apply withi	n 14 days of grazing or harvest for forage or hay.		
De net apply man	R CONTROL		
L		QTS. OF THIS	
		Q10. 01 11110	
GRASSHOPPE Crop	INSECT	PRODUCT/ACRE	
GRASSHOPPE CROP All crops on this			Apply ½ to ¾ quarts per acre of this product for nymphs on small
GRASSHOPPE CROP All crops on this	INSECT	PRODUCT/ACRE	Apply ½ to ¾ quarts per acre of this product for nymphs on small plants or sparse vegetation. Apply 1 to 1½ quarts per acre for mature
GRASSHOPPE CROP	INSECT	PRODUCT/ACRE	Apply ½ to ¾ quarts per acre of this product for nymphs on small plants or sparse vegetation. Apply 1 to 1½ quarts per acre for mature grasshoppers or applications to dense foliage or if extended residual
GRASSHOPPE CROP Ill crops on this	INSECT	PRODUCT/ACRE	Apply ½ to ¾ quarts per acre of this product for nymphs on small plants or sparse vegetation. Apply 1 to 1½ quarts per acre for mature

TREES AND ORNAMENTALS

For dilute-spray ground applications to trees (including shade trees, shelter belts, non-urban forests, tree plantations, Christmas trees, rangeland trees, parks and recreations areas, rural shelter belts), ornamentals, woody plants and shrubs, apply in the specified dosage per 100 gallons of water. For concentrate spray ground applications, apply the specified dosage per acre in sufficient spray volume to provide thorough coverage. For aerial applications to forest trees (including shade trees, shelter belts, plantations, parks and recreations areas) and commercially grown ornamentals, woody plants and shrubs apply the specified dosage per acre in sufficient spray volume to provide thorough coverage. Avoid direct application to lakes, streams and ponds. Do not make more than 6 folliar and 2 direct trunk applications per year.

AMOUNT OF THIS PRODUCT TO PREPARE						
INSECT	3 GALS.	100 GALS.	SPECIFIC DIRECTIONS			
Ants, Apple aphid, Armyworm, Azalea leafminer, Bagworms, Birch leafminer, Blister beetle, Boxelder bug, Boxwood leafminer, Brown tail moth, Cankerworms, Catalpa sphinx, Chiggers, Cooley spruce gall aphid, Cutworms, Cypress tip moth, Douglas fir tussock moth, Eastern spruce gall aphid, Elm leaf aphid, Elm leaf beetle, Elm spanworm, Eriophyid mites, European pine shoot moth, Fall armyworm, Flea beetles, Fuller rose beetle, Gall midges, Gall wasps, Green striped mapleworm, Grasshoppers, Gypsy moth, Hackberry nipplegall maker, Holly bud moth, Holly leafminer, Jackpine budworm, Japanese beetle, Jeffrey pine needleminer, June beetles, Lace bugs, Leaf hoppers, Leafrollers, Locust borers, Maple leafcutter, Mealy bugs, Mimosa webworm, Nantucket pine tip moth, Oak leafminers, Oak leaf skeletonizer, Oakworm complex, Oleander caterpillar, Olive ash borer, Orangestriped	3 GALS. 1 02.	100 GALS. 1 qt.	Use sufficient spray volume to obtain thorough coverage of upper and lower leaf surfaces. To control scale insects, treat trunks, stems, and twigs in addition to plant foliage. For optimum worm control, treat when in early instars. Addition of a sticker may improve residual control. Observe plant response precautions. Applications for control of Maple leafcutter on sugar maple should be made when larvae are in 2nd instar after mining, and as cases are being formed. Repeat treatments as necessary up to a total of 2 times per, year but not more often than once every 7 days.			
oakworm, Orange tortrix, Periodical cicada, Pine sawfly, Pine spittlebug, Pitch pine tip moth, Plant bugs, Poinsettia horn worm, Psyllids, Puss caterpillar, Red humped oak worm, Rose aphid, Rose chafer, Roseslug, Saddled prominent, Sawflies (exposed), Scale insects, Sow bugs, Spiny elm caterpillar, Springtails, Spruce budworm, Spruce needleminer, Sub-tropical pine tip moth, Tent caterpillars, Thornbug, Thrips (exposed), Ticks, Walnut caterpillar, Webworms, Western hemlock looper, Western spruce budworm, Willow leaf beetles, Yellow poplar weevil						
Elm bark beetle, lips engraver beetles, Mountain pine beetle Roundheaded pine beetle, Western pine beetle	18 oz.	4 gals.	Effective as a preventive treatment only. Repeat annually as required to prevent beetle attacks. Apply 1 gallon of spray per 50 square feet of bark in May to early July or prior to beetle attack. Treat tree trunks from ground level up until trunk diameter is less than 5 inches. Applications for control of Elm bark beetle should consist of 20-30 gallons of spray for 50 foot height of elm tree for thorough coverage of all bank surfaces on trunk, limbs and twigs.			

Do not make more than 2 applications per year.
 DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED.

LAWNS AND	RECREATIONAL	AREAS	(COMMERCIAL	APPLICATION ONLY)

SITE	INSECT	SPECIFIC DIRECTIONS
Turf grasses	Ants, Armyworm, Bluegrass billbug,	Use 6 fl. oz. of this product per 1000 square feet (8 quarts per acre) of turf grass. Make
	Centipedes, Chiggers, Chinch bugs,	application in sufficient spray volume for thorough coverage and turf thatch penetration.
	Cutworms, Earwig, Essex skipper,	Repeat treatment as necessary.
•	European chafer, European crane fly,	For Armyworm, Cutworm, Fall Armyworm and Sod Webworm
	Fall armyworm, Fiery skipper, Fleas,	Control: Do not irrigate treated areas within 24 hours following insecticide application.
	Grasshoppers, June Beetles, Leaf hoppers,	For Chinch Bug Control: Treat entire turf grass area rather than just damaged areas. Irrigation of
	Lucerne moth, Millipedes,	turf grass area before insecticide application will aid in penetration into turf grass.
	Mosquitoes, Sod webworms (lawn	For White Grub Control: Applications should be made when grubs are feeding near the soil
	moths), Sowbugs, Spittlebugs,	surface, usually during late March through May, or July to early September or as recommended
	Springtails, Ticks, White grubs,	by local Agricultural Extension Service Agents. Water or irrigate turf grasses thoroughly soon
	Yellowstriped armyworm	after treatment.
	Imported Fire Ants	(Refer to OUTDOORS section of PEST CONTROL IN AND AROUND BUILDINGS)

ADULT MOSQUITO CONTROL

	RATE PER	RATE PER		
CROP	10 GALS.	100 GALS.	SPECIFIC DIRECTIONS	
Pastures, Rangeland,	1 to 3 oz.	1/4 to 1 qt.	OBSERVE BEE CAUTION	
Yards, Parks,			Treat shrubbery and areas where adult mosquitoes congregate. Treat when adult mosquitoes are active in early	
Recreational Areas,			morning or late evening. Repeat at 7 to 10 day intervals. Mix ¼ to ½ quart of this product per 100 gallons in	
Logging Camps,			mist blower; mix ½ to 1 quart of this product in sufficient volume of water per acre in aerial spirays; mix 1	
Military Posts,			quart of this product in sufficient volume of water per acre in low pressure ground sprayers.	
Forested Lands,	2½ qts.	25 qts.	For residual control in subtropical regions apply 4 gallons of prepared spray pag 2000 square feet of surface	
Wastelands			areas. Repeat in 3 to 6 months or when necessary.	
- De not allow public use of treated areas during application or until arrays have dried				

Do not allow public use of treated areas during application or until sprays have dried.

· May kill shrimp and crabs. Do not use in areas where these are important resources.

PEST CONTROL AROUND BUILDINGS GENERAL INFORMATION

Note: Staining may occur on certain surfaces such as stucco, brick, cinder block and wood. Therefore, applications of this product to surfaces where a noticeable residue or discoloration is objectionable should be avoided. Do not apply to carpets or draperies as staining may occur. Care should also be exercised to avoid spotting of wallpaper and fabrics. Do not use this product in commercial food areas of food handling establishments, restaurants or other places where food is prepared or processed.

Do not use in serving areas while food is exposed.

OUTDOORS

Perimeter Treatment: Residual spray for control of ants, bees and wasps, brown dog ticks, carpenter ants, centipedes, cockroaches, crickets, earwigs, firebrats and silverfish, fleas, millipedes, scorpions and spider. Mix 16 oz. this product per 50 gallons of water (2 fl. oz. per 3 gallons), and apply via power spray or other spray methods. To help prevent infestations of buildings by the above pests, outside perimeter treatment should be in a band 6,to 10 feet wide and confined to shrub beds, foundation plantings and lawn or soil areas immediately adjacent to the structure. Direct application to structures should be minimal and restricted to cracks and crevices and other areas where insects tend to congregate.

Imported Fire Ants: Mix 1½ pints of this product per 50 gallons of water (½ fl. oz. per gallon). Apply a total of 2 gallons of the diluted solution over the surface of each mound or at least 1 quart per 6 inches of mound diameter using a bucket,

can or other appropriate equipment. Thoroughly wet mound and surrounding area to a 4 ft. diameter (12 sq. ft.). Do not disturb mounds prior to treatment. Pour solution from a height of about three feet to give sufficient force to break mound apex and flow into ant tunnels. For best results apply in cool weather, 65-80°F, or in early morning or late evening hours. Repeat application if mound activity resumes after 10 days. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Do not store under conditions which might adversely affect the container or its ability to function properly.

STORAGE: Store in a safe manner. Store in original container only. Store in cool, dry place. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment consistent with good pesticide handling. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrecycle.org. If not recycled, then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

(For packages up to 5 gallons:) Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a 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.

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

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

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS,

INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL AND TO THE EXTENT REQUIRED BY APPLICABLE LAW, BUYER OR USER MUST SEND WRITTEN NOTICE OF ITS CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, P.O. BOX 1286, GREELEY, CO 80632-1286.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED, ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS? INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SPELER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.