

ORTHENE® 75 WSP

ACCEPTED

MAY 18 1998

Under the Federal I

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under RPA Reg. No. 59639-89

(Insecticide in a Water Soluble Bag)

Active Ingredient	By Wt.
* Acephate (O,S-Dimethyl acetylphosphoramidothioate)	75%
Inert Ingredients	25%
* ORTHENE®, Acephate	
U.S. Pat. No. 3.914,417	

CAUTION
SEE NEXT PAGE FOR ADDITIONAL

PRECAUTIONARY STATEMENTS

NET WEIGHT 5 POUNDS (5/1 POUND PACKETS)

PRECAUTIONARY STATEMENTS



HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Causes eye irritation. Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist. Wash hands thoroughly after handling. Do not allow children or pets to come into contact with treated areas until sprays have dried.

STATEMENT OF PRACTICAL TREATMENT: Acephate is an organophosphate, cholinesterase inhibitor.

If swallowed: Drink 1 or 2 glasses of water (or milk) and induce vomiting by touching the back of the throat with finger. If possible contact a physician, Poison Control Center, or emergency center before inducing vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. Take person and product container to the nearest emergency

treatment center.

If in eyes:

Wash eyes with fresh water for 15 minutes. If irritation continues, see a doctor.

If on skin:

Wash skin with plenty of soap and water.

If inhaled:

Remove person from exposure area.

Note to Physicians: Emergency Information - call 1-800-892-0099. Acephate is a cholinesterase inhibitor. If signs of cholinesterase inhibition appear, atropine is antidotal. 2-PAM may also be used in conjunction with atropine but should not be used alone.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks and chemical-resistant headgear for overhead exposure.

Mixers and Loaders must wear: long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and chemical-resistant headgear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's 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 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. Applications may adversely affect birds in rangeland treatment areas. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. 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.

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 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 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 and chemical-resistant headgear for overhead exposure.

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, or greenhouses. For other non-agricultural areas, do not enter treated areas without protective clothing until sprays have dried.

DISCLAIMER, CONDITIONS OF SALE, LIMITED WARRANTY AND LIMITATION OF LIABILITY

IMPORTANT: Read the entire Label including this Disclaimer, Limited Warranty and Limitation of Liability before using this product. If the terms are not acceptable, return the unopened product within 15 days of purchase.

RISKS OF USING THIS PRODUCT

It is impossible to eliminate all risks associated with the use of this product. Such risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, moisture conditions, irrigation practices, presence of other materials, cultural practices or the manner of use or application, all of which are factors beyond the control of Valent. All such risks shall be assumed by the Buyer. Valent shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on the label. User assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

LIMITED WARRANTY

Valent warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product described above.

DISCLAIMER OF ALL OTHER WARRANTIES

VALENT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

LIMITATION OF LIABILITY

In no event shall Valent or Seller be liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRODUCT.

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NO AMENDMENTS

Valent and Seller offer this product, and Buyer and User accept it, subject to the foregoing Disclaimer, Conditions of Sale, Limited Warranty and Limitation of Liability, which may not be modified by any oral or written agreement.

PROMPT NOTICE OF CLAIM

Valent must have prompt notice as soon as Buyer or User has reason to believe they may have a claim (not to exceed twenty-one days from date of application) so that an immediate inspection of the affected property and growing crops can be made. Unless Buyer and Users shall promptly notify Valent of any claims, they shall be barred from obtaining any remedy.

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.

DIRECTIONS MULTIPLE PACKAGING

This bag contains multiple water soluble packets of ORTHENE 75 WSP. Do not handle the packets with wet gloves or allow the packets to become wet prior to addition to spray tank. If all packets are not used, close and reseal outer container to protect remaining packet(s).

SINGLE PACKAGING

This bag contains one water soluble packet of ORTHENE 75 WSP. Do not handle the packet with wet gloves or allow the packet to become wet prior to addition to spray tank. Open outer bag by pulling perforated tearstrip and drop the unopened inner packet of ORTHENE 75 WSP into spray tank.

To prepare spray solution, drop the unopened packet(s) of ORTHENE 75 WSP into a spray tank containing at least one-half the total quantity of water required. Continue to add water with the agitator running until the spray volume is reached. Depending on the water temperature and degree of agitation in the tank the packet(s) should completely dissolve in approximately 5 minutes.

Apply to cranberries only by sprinkler irrigation systems. Do not apply by chemigation to any other crop, or this crop using any other type of irrigation system.

Table of Equivalents

Amount of ORTHENE 75 WSP	1 1/3 lbs.	1 lb.	2/3 lb.	4 oz.	2 oz.
Amount Active Contained	1 lb.	3/4 lb.	1/2 lb.	1/5 lb.	1/10 lb.

Rate of ORTHENE 75 WSP Per Acre	Acres Treated By A 1 lb. Packet
4 oz.	4.00
1/3 lb.	3.00
2/3 lb.	1.50
1 lb.	1.00 -
1 1/3 lbs.	0.75 ;
2 2/3 lbs.	0.38
6 2/3 lbs.	0.15

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ts for 2 lb. Packet
Acres Treated By A 2 lb. Packet
8.00
6.00
3.00
2.00
, 1.50
0.75
0.30

Table of Equivaler	nts for 2.5 lb. Packet
Rate of ORTHENE 75 WSP Per Acre	Acres Treated By A 2.5 lb. Packet
4 oz.	10.0
1/3 lb.	7.50
2/3 lb.	3.75
1 lb.	2.50
1 1/3 lbs.	1.88
2 2/3 lbs.	0.94
6 2/3 lbs.	0.38

Table of Equivalents for 10 lb. Packet				
Rate of ORTHENE 75 WSP Per Acre	Acres Treated By A 10 lb. Packet			
4 oz.	40.0			
1/3 lb.	30.0			
2/3 lb.	15.0			
1 lb.	10.0			
1 1/3 lbs.	7.50			
2 2/3 lbs.	3.75			
6 2/3 lbs.	1.50			

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6	Inggota	Amount ORTHENE 75 WSP		Days to
Crop	Insects Thrips	Per Acre 3 oz. to 4 oz.	Further Use Instructions Apply in water at 3 to 10 gals. spray per acre by air (minimum 5 gals./acre in CA), or 10 to 25 gals. spray per acre by ground. Apply when eggs or insects first appear. Repeat as necessary to	Harvest 21
	Plant Bugs (Lygus)	1/3 to 1 1/3 lbs. {5.25 to 21.25 oz.} 1 to 1 1/3 lbs. 16 to 21.25 oz.} (CA, AZ)	maintain control. Do not feed gin trash to livestock or allow animals to graze on treated areas. Do not apply more than 6 lbs. of ai/A per season. This includes the use of Payload* 15 G as an infurrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment	
	Cotton Aphid (excluding CA, AZ) Whitefly	2/3 to 1 1/3 lbs. (10.5 to 21.25 oz.)	Lygus - Use higher rate for Lygus adults that have migrated into cotton. Cotton Aphid - This insect has shown the ability to develop resistance to various classes of insecticides in various locations at	
	Sweetpotato Whitefly (Silverleaf whitefly)	2/3 lb. (10.5 oz. + *DANITOL* 10 2/3 to 16 fl. oz.	various times during the production season. Consult your local Agricultural Extension Service for the current recommended control practices for this insect. *Comply with all applicable directions, restrictions and precautions on the EPA registered label for DANITOL.	
	Armyworms (excluding Beet Armyworm) Cabbage Looper	1 1/3 lbs. (21.25 oz.)	Bollworm and Tobacco Budworm - Early season light infestation use 2/3 lb. per acre. Mid and late season moderate to severe infestations use 1 to 1 1/3 lbs. per acre. Apply when eggs appear and repeat at 3 to 7 day spray interval. Adults/Larvae: Moths are controlled	·
	Bollworm Tobacco Budworm Adults Larvae Eggs/ DEADHATCH®	2/3 to 1 1/3 lbs. (10.5 to 21.25 oz.) (East of Rockies) 1 1/3 lbs. (21.25 oz.) (CA, AZ)	when they come in direct contact with spray particles during application. Moth kill is most likely to occur when application is made late in the evenings during periods of peak activity. Eggs: When spray particles come in direct contact with eggs, hatching larvae may be controlled as they consume and emerge from their egg casing.	
	Stinkbugs Cutworms	1 lb. {16 oz.}	Cutworms - Control measures are most effective when ground applications are made in the evenings and the spray is directed toward the lower portion and base of the plant. Apply in water at 10 to 25 gals, spray per acre by ground. Aerial applications are not as effective in controlling cutworms. However, should aerial application be necessary, apply in water at 3 to 10 gals, spray per acre (minimum 5 gals, per acre in CA). Apply when insects first appear or damage is first noted and repeat to maintain control.)))))))))))))))))))
	Pink Bollworm (CA, AZ)	1 1/3 lbs. (21.25 oz.)	Pink Bollworm - Apply when insects appear and repeat at a 5 to 7 day spray interval.	,,,,

COTTON TANK MIXES

Crop	Insects	Amount ORTHENE 75 WSP + LORSBAN® 4E Per Acre	Further Use Instructions	Days to Harvest
Cotton	Armyworms (excluding Beet Armyworm) Bollworm Cabbage Looper Cotton Aphid Cutworms Fleahopper Grasshoppers Pink Bollworm Plant Bugs (Lygus, Mirids) Salt Marsh Caterpillar Thrips Tobacco Budworm Whitefly (Excluding Sweetpotato Whitefly)	1/3 to 1-1/3 lbs. {5.25 to 21.25 oz.} + 1 to 2 pts.	Do not feed gin trash or treated forage to livestock. Do not allow livestock to graze on treated areas. Do not apply more than 6 lbs. of ai/A per season. This includes the use of Payload* 15 G as an infurrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment uses. Cutworms - Use ORTHENE® at 1 lb. per acre. Control measures are most effective when ground applications are made in the evenings and the spray is directed toward the lower portion and base of the plant. Apply in water at 10 to 25 gals. spray per acre by ground. Aerial applications are not as effective in controlling cutworms. However, should aerial application be necessary, apply in water at 3 to 10 gals. spray per acre (minimum 5 gals. per acre in CA). Apply when insects first appear or damage is first noted and repeat to maintain control.	21

COTTON TANK MIXES (Continued)

	COTTON TANK MIXES (Continued)					
1		Amount ORTHENE 75 WSP (lb.)	Pyrethroid		Days To	
		+	Maximum		Harvest	
		** Synthetic Pyrethroid (fl.oz.)	lbs. Active	Further Use	For Each	
Crop	insects	Per Acre	Per Acre	Instructions	Combination	
	5 11	00711515 75 11/00		D:		
Cotton	Bollworm	ORTHENE 75 WSP		Begin applications		
	Tobacco	1 1/3 lbs. to 2 acres up to		when eggs or insects		
	Budworm	1 1/3 lbs. to 1 acre		appear and apply as		
	Cabbage	PYDRIN® 2.4 EC, 5.3 - 10.67	2.0	needed to maintain	21	
	Looper	or		control.		
	Plant Bugs	ASANA® 1.9 EC, 1.4 - 3.4*	0.5	Apply in 3 to 5 gals.	21	
	Thrips	or		of water with aerial	•	
	Fleahoppers	ASANA® XL, 3.9 - 9.6*	0.5 .	equipment or in 10	21	
	Pink	or		to 25 gals, of water	0.4	
Į.	Bollworm	CAPTURE® 2 EC, 1.3 - 6.4	0.5	with ground	21	
	(CA, AZ)	or	0.00	equipment. Do not		
	Aphids	BAYTHROID® 2 EC, 1.6 - 3.2	0.89	feed gin trash to	21	
!	Whitefly	or		livestock or allow	ا م	
	Cotton Leaf	KARATE® 1 E, 3.2 - 5.12	0.2	animals to graze on	21	
•	Perforator	(Except CA) or	22.	treated areas.		
	Fall Armyworm	AMBUSH® 2 EC, 6.4 - 12.8	3.0	Stinkbugs and	21	
1	Cutworms	or	2.0	Cutworms:	,	
	Stinkbugs	POUNCE® 3.2 EC, 2 - 8*	3.0	Use ORTHENE 75	21	
	Sweetpotato	OF	1 10	WSP at 1 lb. to 1	2.	
	Whitefly	AMMO® 2.5 EC, 2 - 5*	1.0	acre.	21	
		OF CYCARDICIPA CO. 4.7. 2.50*	1.0	Cutworms - Control measures are most	21	
		CYMBUSH® 3 EC, 1.7 - 2.56*	1.0	effective when	41	
<u> </u>	ł	or SCOUT® 0.3 EC, 6.4 - 8	0.19		28	
11	1		0.19	ground applications are made in the		
11		(Except CA) or SCOUT® X-TRA, 2.13 - 3.33	0.19	evenings and the	28	
		(Except CA)	0.19	spray is directed	20	
	1	(Except CA)		toward the lower		
	1		l	portion and base of		
			ļ	the plant. Apply in	ł	
l				water at 10 to 25	1	
H				gals, spray per acre		
				by ground. Aerial	ļ	
ļļ			<u> </u>	applications are not		
li .				as effective in		
				controlling]	
				cutworms.	}	
}			Į.	However, should		
1				aerial application be		
II		f	1	necessary, apply in	ĺ	
[]				water at 3 to 10		
ll .				gals, spray per acre	1	
H]		(minimum 5 gals, per		
ll .				acre in CA). Apply	Į.	
11				when insects first	1	
				appear or damage is		
#			}	first noted and		
11	1			repeat to maintain		
			ł	control. All	1	
				applicable directions,		
l				restrictions and		
			1	precautions on the		
1	}	1	1	EPA registered labels	****	
1				are to be followed.	1 , , , , ,	

Use low rate only for light insect infestations.

Synthetic pyrethroids should be used within the guidelines of state and/or regional resistance management, programs and recommendations.

COTTON IN-FURROW APPLICATION

COTTON IN-FURROW APPLICATION			
Crop	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions
Cotton	Aphids Thrips Black (Greasy) Cutworm (Except CA)	2/3 to 1 1/3 lbs. (10.5 to 21.25 oz.)	Do not apply more than 6 lbs. of ai/A per season. This includes the use of Payload 15 G as an in-furrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment uses. Refer to the ORTHENE 75 WSP conversion chart before making product application. ORTHENE 75 WSP CONVERSION CHART LBS. A.I. TO OZ. FORMULATED PRODUCT 0.5 10.7 0.6 12.8 0.7 14.9 0.8 17.0 0.9 19.2 1.0 21.3 Apply % to 1 % lbs. ORTHENE 75 WSP in 3 to 5 gals. of water per acre as an in-furrow spray. NOTE: For the Blacklands of Texas use only the 1.0 lb. ORTHENE 75 WSP rate (21.3 oz. formulated product per acre). ORTHENE 75 WSP can be mixed with fungicides that are sprayed in-furrow for disease control. Flat-fan nozzles used for in-furrow application should be set so that the fanned spray pattern is aligned with the row to insure good spray deposition in the seed furrow. Cone type nozzles may not provide a spray pattern that insures maximum spray deposition in the seed furrow, and should be avoided. Spray systems that employ metal or plastic tubing for delivery of spray solution into the seed furrow should have tubing securely fastened to the furrow opener and should be checked frequently to insure that the tubing is properly positioned to deposit spray solution into the seed furrow.

FIELD CROPS

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Crops	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use instructions	Days to Harvest
Peppermint Spearmint	Alfalfa Looper Cutworms Aphids	1 1/3 lbs. {21.25 oz.}	Apply in water at 5 to 10 gals, spray per acre by air or 20 to 100 gals, spray per acre by ground. Apply when eggs or insects first appear. Make one repeat application, if necessary, to maintain control. Do not apply more than 2 2/3 lbs./A (2 lbs. ai) per season. Do not use spent mint hay for feed for dairy animals.	
Peanuts	Grasshoppers	1/3 to 2/3 lb. {5.25 to 10.5 oz.}	Apply in water at 10 to 50 gals. spray	14 (of digging)
	Thrìps	1/2 to 1 lb. (8 to 16 oz.)	appear and repeat as needed to maintain control. Do not apply more than 5 % lbs./A (4 lbs. ai) per season. Do not feed treated forage or hay to	
	Corn Earworm Fall Armyworm Leafhoppers Loopers Velvetbean Caterpillar	1 to 1 1/3 lbs. (16 to 21.25 oz.)	livestock or allow animals to graze treated areas. ORTHENE can be tank mixed with atcracking and early post emergence peanut herbicide.	. * .

TOBACCO
TOBACCO TRANSPLANT WATER APPLICATION (EXCEPT CA)

			
Стор	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions
Tobacco	Flea Beetle Green Peach Aphid Tobacco Aphid Cutworms Tobacco Thrips	1 lb. {16 oz.}	Provides control of early season flea beetles, green peach aphids, tobacco aphids, and cutworms for approximately 3 to 4 weeks after transplanting. For later season control of these insects, apply a foliar spray of ORTHENE 75 WSP. Apply in a minimum of 100 gals. of transplant water per acre. Do not apply more than 5 ½ lbs./A (4 lbs. ai) per season. This includes the use of Orthene in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications. Do not apply more than 1 lb. ORTHENE 75 WSP per acre as a transplant water application as some phytotoxicity may occur.

TOBACCO FOLIAR APPLICATION (EXCEPT CA)

Сгор	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions	Days to Harvest
Tobacco (Flue-Cured, Air Dured,	Grasshoppers	1/3 to 2/3 lb. (5.25 to 10.5 oz.)	Apply in 10 to 50 gals, water per acre with ground equipment or a minimum of 3 gals, per acre by	3
Dark Fire Cured)	Green Peach Aphid Flea Beetle Hornworm Tobacco Thrips	2/3 lb. (10.5 oz.)	air. Apply on a 7 day schedule or as needed.	
	Tobacco Aphid Vegetable Weevils Stinkbugs	2/3 to 1 lb. {10.5 to 16 oz.}	Do not apply more than 5 1/3 lbs./A (4 lbs. ai) per season. This includes the use of Orthene in transplant water, plant bed, soil,	
	Budworm Cabbage Looper Cutworm	1 lb. (16 oz.)	float bed (greenhouse), and foliar applications.	

TOBACCO PLANT BED APPLICATION (EXCEPT CA)

Crop	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions
Tobacco Bed Tresument	Flea Beetle Green Peach Aphid Tobacco Aphid Cutworm	1 lb. (16 oz.)	Apply to foliage at the equivalent of 1/3 oz. per gal. of water per every 1/300 sq. ft. of bed. Apply evenly to 1/32 e thorough coverage. Do not apply more than 5 1/3 lbs./A (4 lbs. ai) per season. This includes the use of Orthene in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications.

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TOBACCO GREENHOUSE APPLICATION (EXCEPT CA)

Crop	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions
Tobacco	Cutworm Flea Beetle Green Peach Aphid Tobacco Aphid	1 lb. (16 oz.)	Apply to foliage at the equivalent of % oz. in 3 gals. water per every 1,000 sq. ft. of bed. Apply evenly to insure thorough coverage. Note: Floatbed water should be disposed of in the transplanted field through the transplant water or through foliar spray. Do not apply more than 5 % lbs./A (4 lbs. ai) per season. This includes the use of Orthene in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications.

TOBACCO SOIL APPLICATION (EXCEPT CA)

Crop	insects	Amount ORTHENE 75 WSP	Further Use Instructions	Days to Harvest
Tobacco	Ants, Including Imported Fire Ants and Harvester Ants	Mound Treatment- Drench Method: Mix at equivalent of 1 oz. in 5 gals. of water (1 lb. per 80 gals.). Apply 1 gal. 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 affective. Applications made under prolonged hor and dry conditions may be ineffective due to the location of the ants deep within the nest. Treat maximum of 13 mounds per acre. Do not apply more than 5 ½ lbs./A (4 bs. ai) per season. This includes the use of Orthene in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications.	3
		<u> </u> 	Do not treat more than once per season.	

FRUIT CROPS

Сгор	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions	Days to Harvest
Cranberries	Cranberry Blossom Worm Gypsy Moth False Armyworm Fireworms Spanworms Spanganothis	1 1/3 lbs. (21.25 oz.)	Apoly in water by air, ground or with sprinklers. Use a minimum of 2 gals, spray per acre by air. Use sufficient water to give thorough coverage with ground or sprinkler equipment. Note: Limit to one application per in growing season. Do not apply more than 1 ½ lbs.//A {1 %b. ai) per season.	90

SPRINKLER IRRIGATION APPLICATION TO CRANBERRIES:

This product may only be applied through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, travelers, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water suppliers are in place. A person knowledgeable of the chemigation system and responsible for its operation shall shut the system down and make necessary adjustments should the need arise.

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.

Solid Set System: Apply specified dosage for the entire length of the irrigation period or for a 30 to 60 minute period at the end of a regular irrigation set or as a 30 to 60 minute injection as a separate application not associated with a regular irrigation. Allow time for all lines to flush the pesticide through the nozzle before turning off irrigation water. To ensure the lines are flushed and free of remaining pesticide, a dye indicator may be injected into the lines to mark the end of the application period. See NOTE.

Center Pivot Systems: Inject the specified dosage per acre continuously for one complete revolution of the system. See NOTE.

NOTE: Constant agitation must be maintained in the chemical supply tank during the entire period of insecticide application. Inject the product with a positive displacement pump into the main line ahead of a right turn to insure adequate mixing.

Application of more than label recommended quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness.

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Crops Insects CRTHENE 75 WSP Further Use Instructions Days Harv	vest obeans eans)
Lima Beans (Dry and Succulent Forms) Aphids (excluding Black Bean Aphid) Bean Leaf Beetle Bean Leaffoller Cabbage Looper Cutworms Green Cloverworm Leafnoppers Mexican Bean Beetle Plant Bugs (Lygus) Soybean Looper Thrips Whitefly Armyworms (excluding Beet Armyworm) Corn Earworm European Corn Loopean Corn Aphids (excluding Beet Armyworm) Corn Earworm European Corn [5.25 to 10.5 oz.] spray per acre by air or 20 to 100 gals. spray per acre by	eans) eans -
(excluding Black Bean Aphid) Bean Leaf Beetle Bean Leafroller Cabbage Looper Cutworms Green Cloverworm Leafhoppers Mexican Bean Beetle Plant Bugs (Lygus) Soybean Looper Thrips Whitefly Armyworms (excluding Beet Armyworm) Corn Earworm European Corn (10.5 to 21.25 appear. Repeat at 7 to 10 day intervals as necessary. Severe insect infestations, use higher rates. Do not feed treated vines to livestock. Do not apply more than 2 % lbs./A (2 lbs. ai) per season.	
Armyworm) Corn Earworm European Corn	
Brussels Green Peach 2/3 to 1 1/3 lbs. Apply in water at 25 to 150 gals. spray per acre by ground or a minimum of 5 gals. spray per acre by air.	4 ,
Use the high rate when heavy infestations of aphids are present.	
Begin applications when insects or eggs first appear.	
Repeat application as needed. Do not apply more than 2 % lbs. /A (2 lbs. ai) per season to Brussels Sprouts and Cauliflower.	
Cabbage Looper 1 1/3 lbs. Diamondback (21.25 oz.) Moth Larvae Imported allow animals to graze in treated areas.	
Diamondback Moth larvae-This insect has shown the ability to develop resistance to various classes of insecticides in various locations during the production season. Consult your local Agricultural Extension Service for the current recommended control	
Celery Green Peach Aphid 2/3 to 1 1/3 lbs. Apply in water at 50 to 100 gals, spray per acre by ground or in a minimum of	1
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Fall Armyworms 1 1/3 lbs. Do not apply more than 2 % lbs./A (2 lb. ai) per season.	, , , ,
Trim plants (tops removed) before shipment for use.	***
Do not use trimmed tops for food or feed.	

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VEGETABLES CROPS (Continued)					
Crops	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions	Days to Harvest	
Head Lettuce (Crisphead Type Only)	Aster Leafhopper Green Peach Aphid	2/3 to 1 1/3 lbs. {10.5 to 21.25 oz.}	Apply in water at 5 to 10 gals, spray per acre by air or 10 to 60 gals, spray per acre (broadcast) by ground. Apply as necessary to maintain desired control. Do not apply more than 2 % lbs./A (2 lbs. ai) per season.	21 Spring, Summer and early Fall crops in all areas and Winter crops in	
	Cabbage Looper Armyworms (excluding Beet Armyworm)	1 1/3 lbs. (21.25 oz.)	Do not apply after first head begins to form to crops which germinate from mid-September through November in desert areas of AZ and CA. Do not feed trimmings to livestock or allow animals to graze on treated areas.	Florida and Texas, late Fall crops in Arizona, winter crops in Arizona and California.	
Peppers (non- bell type)	Aphids	2/3 lb. (10.5 oz.)	For use in Midwestern, Eastern States and Puerto Rico only. Apply in water at 40 to 150 gals, spray per acre with ground equipment. Repeat at 7 to 10 day intervals as necessary. Do not apply more than 1 1/2 lbs./A { 1 lb. ai) per season.	7	
Sweet Peppers (Bell type)	Grasshoppers	1/3 to 2/3 lb. (5.25 to 10.5 oz.)	Apply in water at a minimum of 3 gals. spray per acre by air or 25 to 150 gals. spray per acre by ground.	7	
	Cabbage Looper Green Peach Aphid Tobacco Hornworm	2/3 to 1 1/3 lbs. (10.5 to 21.25 oz.)	Apply when eggs or insects appear. Repeat as necessary until insects have been reduced below economic numbers.		
	European Corn Borer	1 to 1 1/3 lbs. (16 to 21.25 oz.)	Do not apply more than 2 % lbs./A (2 lbs. ai) per season.		

WASTELAND

			ELANU	
Crops	Insects	Amount ORTHENE 75 WSP	Further Use Instructions	Days to Harvest
Wasteland	Grasshoppers Mormon Crickets Black Grass Bugs	1/8 to 1/6 lb. (2 to 2 2/3 oz.)	Apply in water at a minimum of 1/2 gal. spray per acre by air or 10 to 20 gals. spray per acre by ground. Use the higher rate in thicker vegetation or on larger insects. An approved drift retardant additive may be added to aid in controlling drift and reducing evaporation of aerial sprays. Do not make more than one application per season. Do not apply when lactating dairy cattle are present. Do not graze or feed grass or grass hay to dairy animals. Remove meat animals from treated areas at least one day before slaughter if they were present at application or grazed treated areas within 21 days after application.	21 for hay

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		NON-BEARING CITE	RUS	
Plants	Insects	Amount ORTHENE 75 WSP Per Acre	Time of Application	Recommended Application
Non-bearing Citrus (including citrus nursery seedlings)	Aphids Grasshoppers Katydid Mealybugs Orangedogs Plant Bugs Thrips Whiteflies	2/3 ib. (10.5 oz.)	Apply as needed for control of existing populations. The high rate should be used when a heavy infestation of citrus blackfly is present. Begin applications when eggs or adults first appear. Apply on a 7 to 10 day interval or as needed to maintain control.	Apply ORTHENE 75WSP in 100 to 200 gallons of water per acre. Spray individual juvenile or non-bearing trees for coverage with total application not to exceed specified rate in lbs. per acre. Length of residual activity will depend upon spray coverage and the amount of moisture following application. Do not graze treated areas. DO NOT HARVEST citrus for one year
	Ants, Including Imported Fire Ants and Harvester Ants	Foliar Spray 1.0 lbs. (16 oz.)	Apply as needed for control of existing populations.	after treatment. For mound drench treatment, apply 1 gal. of mix to each mound area by sprinkling the mound until it is wet and
		Mound Treatment - Drench Method: Mix 1 oz. in 5 gals. of water.		treat a four (4) foot diameter circle around the mound.

SPECIALTY USES NON-CROP AREAS

Amount ORTHENE 75 WSP
Per Acre

Further Use Instructions

For early to mid-season application to grasshoppers in field borders, fencerows, roadsides, ditchbanks, and borrow pits.
Apply in 1 to 5 gals. of water with ground equipment. Use the higher volumes when spraying heavier foliage. Do not graze or feed vegetation cut from treated areas.

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.

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STORAGE AND DISPOSAL

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PROHIBITIONS

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

STORAGE

Keep pesticide in original container.

Do not put concentrate or dilute into food or drink containers.

Store in 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 day or night 1-800-892-0099.

PESTICIDE DISPOSAL

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

CONTAINER DISPOSAL

Do not reuse the outer bag. Dispose of outer bag in a sanitary landfill or by incineration if allowed by State and local authorities.

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AMBUSH® – Reg. TM of Zeneca Inc. Ag Products for permethrin insecticide.

AMMO® – Reg. TM of FMC Agri Chemical Group for cypermethrin insecticide.

ASANA® – Reg. TM of E. I. DuPont de Nemours & Co., Inc. for esfenvalerate insecticide.

BAYTHROID® – Reg. TM of Miles Inc. for cyfluthrin synthetic pyrethroid.

CAPTURE® – Reg. TM of FMC Agri Chemical Group for bifenthrin insecticide miticide.

CYMBUSH® – Reg. TM of Zeneca Inc. Ag Products for cypermethrin insecticide.

DANITOL® – Reg. TM of Sumitomo Chemical Company Ltd. for fenpropathrin insecticide.

KARATE® – Reg. TM of Zeneca Ag Products U.K. for lambdacyhalothrin insecticide.

LORSBAN® – Reg TM of Dow Chemical Company for chlorpyrifos insecticide.

ORTHENE® – Reg. TM of Monsanto Company for acephate insecticide.

POUNCE® – Reg. TM of FMC Agri Chemical Group for permethrin insecticide.

PYDRIN® – Reg. TM of Hoechst-Roussel Agri-Vet Co. for tralomethrin pyrethroid insecticide.

Manufactured for Valent U.S.A. Corporation Walnut Creek, CA 94596-8025 FormR01550C0.1980223 Made in U.S.A. EPA Reg. No. 59639-89 EPA Est. 39578-TX-01

ORTHENE ® 75 WSP CONTAINS ACEPHATE CAUTION

KEEP OUT OF REACH OF CHILDREN EPA REGISTRATION NO. 59639-89

REFER TO OUTER CONTAINER LABEL FOR USE DIRECTIONS AND PRECAUTIONS