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DEC 21 1995

Valent U.S.A. Corp.
1333 N. California Blvd., 600 Ste.
Walnut Creek, CA 94596

Attention: Ms. Elizabeth J. Weibert

Subject: Orthene 75 WSP
EPA Registration No. 59639-89
Your amended application of March 9, 1995

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable provided that you make the following labeling change before you ship product:

1. Modify your proposed "tank mix" statement as follows:

ORTHENE can be tank mixed with registered at-cracking and early post-emergence peanut herbicides, provided those products do not prohibit tank mixes, provided the most restrictive of label limitations and precautions are observed, and provided no label dosage rates are exceeded.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,



Robert A. Forrest
Product Manager (14)
Insecticide-Rodenticide Branch
Registration Division (H7504C)

Enclosures: 1. Stamped label
2. A-79 Enclosure

Peacock WP#8:A:59639-89:305-5407,-6600:12/21/95

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ORTHENE® 75 WSP

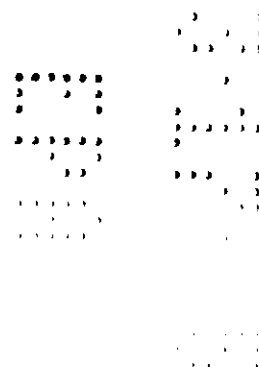
(Insecticide in a Water Soluble Bag)

ACCEPTED
with COMMENTS
in EPA Letter Dated
2/1/81
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
59639-89

Active Ingredient	By Wt.
* Acephate (O,S-Dimethyl acetylphosphoramidothioate)	75%
Inert Ingredients	25%
* ORTHENE®, Acephate	
U.S. Pat. No. 3,914,417	

KEEP OUT OF REACH OF CHILDREN
CAUTION
SEE NEXT PAGE FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

NET WEIGHT 5 POUNDS (5/1 POUND PACKETS)



BEST COPY AVAILABLE

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.

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.

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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.

Table of Equivalents for 1 lb. Packet

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

Table of Equivalents for 2 lb. Packet

Rate of ORTHENE 75 WSP Per Acre	Acres Treated By A 2 lb. Packet
4 oz.	8.00
1/3 lb.	6.00
2/3 lb.	3.00
1 lb.	2.00
1 1/3 lbs.	1.50
2 2/3 lbs.	0.75
5 2/3 lbs.	0.30

Table of Equivalents for 5 lb. Packet

Rate of ORTHENE 75 WSP Per Acre	Acres Treated By A 5 lb. Packet
4 oz.	20.00
1/3 lb.	15.00
2/3 lb.	7.50
1 lb.	5.00
1 1/3 lbs.	3.75
2 2/3 lbs.	1.88
6 2/3 lbs.	0.75

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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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COTTON

Crop	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions	Days to Harvest
Cotton	Thrips	3 oz. to 4 oz.	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.	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)	Apply when eggs or insects first appear. Repeat as necessary to maintain control.	
	Flea hopper	1/3 lb. (5.25 oz.)	Do not feed gin trash to livestock or allow animals to graze on treated areas.	
	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 various times during the production season. Consult your local Agricultural Extension Service for the current recommended control practices for this insect.	
	Sweetpotato Whitefly (Silverleaf whitefly)	2/3 lb. (10.5 oz.) + DANITOL® 10 2/3 to 16 fl. oz.	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 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.	
	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)	Eggs: When spray particles come in direct contact with eggs, hatching larvae may be controlled as they consume and emerge from their egg casing. 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.	
	Stinkbugs Cutworms	1 lb. (16 oz.)		
	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	<p>Amyworms (excluding Beet Amyworm) Bollworm Cabbage Looper Cotton Aphid Cutworms Fleahopper Grasshoppers Pink Bollworm Plant Bugs (Lygus, Mirids) Salt Marsh Caterpillar Thrips Tobacco Budworm Whitefly (Excluding Sweetpotato Whitefly)</p>	<p>1/3 to 1-1/3 lbs. (5.25 to 21.25 oz.) + 1 to 2 pts.</p>	<p>Do not feed gin trash or treated forage to livestock. Do not allow livestock to graze on treated areas.</p> <p>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.</p>	21

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COTTON TANK MIXES (Continued)

Crop	Insects	Amount ORTHENE 75 WSP (lb.) + ** Synthetic Pyrethroid (fl.oz.) Per Acre	Pyrethroid Maximum lbs. Active Per Acre	Further Use Instructions	Days To Harvest For Each Combination
Cotton	Bollworm	ORTHENE 75 WSP		Begin applications when eggs or insects appear and apply as needed to maintain control. Apply in 3 to 5 gals. of water with aerial equipment or in 10 to 25 gals. of water with ground equipment. Do not feed gin trash to livestock or allow animals to graze on treated areas. Stinkbugs and Cutworms: Use ORTHENE 75 WSP at 1 lb. to 1 acre. 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. All applicable directions, restrictions and precautions on the EPA registered labels are to be followed.	
	Tobacco	1 1/3 lbs. to 2 acres up to			
	Budworm	1 1/3 lbs. to 1 acre			
	Cabbage	PYDRIN® 2.4 EC, 5.3 - 10.67	2.0		21
	Looper	or			
	Plant Bugs	ASANA® 1.9 EC, 1.4 - 3.4*	0.5		21
	Thrips	or			
	Fleahoppers	ASANA® XL, 3.9 - 9.6*	0.5		21
	Pink	or			
	Bollworm (CA, AZ)	CAPTURE® 2 EC, 1.3 - 6.4	0.5		21
	Aphids	or			
	Whitefly	BAYTHROID® 2 EC, 1.6 - 3.2	0.89		21
	Cotton Leaf	or			
	Perforator	KARATE® 1 E, 3.2 - 5.12	0.2		21
	Fall Armyworm	(Except CA) or			
	Cutworms	AMBUSH® 2 EC, 6.4 - 12.8	3.0		21
	Stinkbugs	or	3.0	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. All applicable directions, restrictions and precautions on the EPA registered labels are to be followed.	21
	Sweetpotato	POUNCE® 3.2 EC, 2 - 8*	1.0		21
	Whitefly	or			
		AMMO® 2.5 EC, 2 - 5*	1.0		21
		or			
		CYMBUSH® 3 EC, 1.7 - 2.56*	0.19		28
		or			
		SCOUT® 0.3 EC, 6.4 - 8 (Except CA) or	0.19		28
		SCOUT® X-TRA, 2.13 - 3.33 (Except CA)			

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

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.)	<p>Refer to the ORTHENE 75 WSP conversion chart before making product application.</p> <p>ORTHENE 75 WSP CONVERSION CHART</p> <p><u>LBS. A.I. TO OZ. FORMULATED PRODUCT</u></p> <table><tr><td>0.5</td><td>10.7</td></tr><tr><td>0.6</td><td>12.8</td></tr><tr><td>0.7</td><td>14.9</td></tr><tr><td>0.8</td><td>17.0</td></tr><tr><td>0.9</td><td>19.2</td></tr><tr><td>1.0</td><td>21.3</td></tr></table> <p>Apply 2/3 to 1 1/3 lbs. ORTHENE 75 WSP in 3 to 5 gals. of water per acre as an in-furrow spray.</p> <p>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.</p> <p>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.</p>	0.5	10.7	0.6	12.8	0.7	14.9	0.8	17.0	0.9	19.2	1.0	21.3
0.5	10.7														
0.6	12.8														
0.7	14.9														
0.8	17.0														
0.9	19.2														
1.0	21.3														

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FIELD CROPS

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.)	<p>Apply in water at 5 to 10 gals. spray per acre by air or 20 to 100 gals. spray per acre by ground.</p> <p>Apply when eggs or insects first appear. Make one repeat application, if necessary, to maintain control.</p> <p>Do not apply more than 2 2/3 lbs. per acre per season.</p> <p>Do not use spent mint hay for feed for dairy animals.</p>	14
Peanuts	Grasshoppers	1/3 to 2/3 lb. (5.25 to 10.5 oz.)	<p>Apply in water at 10 to 50 gals. spray per acre by ground or in 5 to 10 gals. spray per acre by air.</p>	14 (of digging)
	Thrips	1/2 to 1 lb. (8 to 16 oz.)	<p>Begin applications when insects first appear and repeat as needed to maintain control.</p> <p>Do not feed treated forage or hay to livestock or allow animals to graze treated areas.</p>	
	Corn Earworm Fall Armyworm Leafhoppers Loopers Velvetbean Caterpillar	1 to 1 1/2 lbs. (16 to 21.25 oz.)	<p>ORTHENE can be tank mixed with at-cracking and early post emergence peanut herbicides.</p>	

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TOBACCO TOBACCO TRANSPLANT WATER APPLICATION (EXCEPT CA)

Crop	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 1 lb. ORTHENE 75 WSP per acre as a transplant water application as some phytotoxicity may occur.

TOBACCO FOLIAR APPLICATION (EXCEPT CA)

Crop	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions	Days to Harvest
Tobacco (Flue-Cured, Air Cured, Dark Fire Cured)	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 air. Apply on a 7 day schedule or as needed.	3
	Green Peach Aphid Flea Beetle Hornworm Tobacco Thrips	2/3 lb. (10.5 oz.)		
	Tobacco Aphid Vegetable Weevils Stinkbugs	2/3 to 1 lb. (10.5 to 16 oz.)		
	Budworm Cabbage Looper Cutworm	1 lb. (16 oz.)		

TOBACCO PLANT BED APPLICATION (EXCEPT CA)

Crop	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions
Tobacco Bed Treatment	Flea Beetle Green Peach Aphid Tobacco Aphid Cutworm	1 lb. (16 oz.)	Apply to foliage at the equivalent of 1/4 oz. per gal. of water per every 1,000 sq. ft. of bed. Apply evenly to insure thorough coverage.

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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 1/2 oz. in 3 gals. water per every 1,000 sq. ft. of bed. Apply evenly to insure thorough coverage. Note: Floated water should be disposed of in the transplanted field through the transplant water or through foliar spray.

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 afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest. Treat maximum of 13 mounds per acre. Do not treat more than once per season.	3

FRUIT CROPS

Crop	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions	Days to Harvest
Cranberries	Cranberry Blossom Worm Gypsy Moth False Armyworm Fireworms Spanworms Sparganothis	1 1/3 lbs. (21.25 oz.)	Apply 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 growing season. Do not apply from start of bloom until all berries set.	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.

VEGETABLE CROPS

Crops	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions	Days to Harvest
Beans and Lima Beans (Dry and Succulent Forms)	Flashoppers Grasshoppers	1/3 to 2/3 lb. (5.25 to 10.5 oz.)	Apply in water at a minimum of 2 gals. spray per acre by air or 20 to 100 gals. spray per acre by ground.	14 (snapbeans or dry beans)
	Aphids (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	2/3 to 1 1/3 lbs. (10.5 to 21.25 oz.)	Apply when eggs or insects first appear. Repeat at 7 to 10 day intervals as necessary. Severe insect infestations, use higher rates. Do not feed treated vines to livestock.	0 (lima beans - succulent form)
	Amyworms (excluding Beet Armyworm) Corn Earworm European Corn Borer	1 to 1 1/3 lbs. (16 to 21.25 oz.)		
Brussels Sprouts Cauliflower	Green Peach Aphid	2/3 to 1 1/3 lbs. (10.5 to 21.25 oz.)	Apply in water at 25 to 150 gals. spray per acre by ground or a minimum of 5 gals. spray per acre by air. 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 8 lbs. per acre per season to Brussels Sprouts.	14
	Cabbage Looper Diamondback Moth Larvae Imported Cabbage Worm	1 1/3 lbs. (21.25 oz.)	Do not feed trimmings to livestock or 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 practices for this insect.	
Celery	Green Peach Aphid	2/3 to 1 1/3 lbs. (10.5 to 21.25 oz.)	Apply in water at 50 to 100 gals. spray per acre by ground or in a minimum of 5 gals. per acre by air. Apply when eggs or insects appear and repeat at 3 to 10 day intervals as necessary to maintain control.	21
	Fall Armyworms Cabbage Looper	1 1/3 lbs. (21.25 oz.)	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 6-2/3 lbs. per acre per season.	21 Spring, Summer and early Fall crops in all areas and Winter crops in Florida and Texas, late Fall crops in Arizona, winter crops in Arizona and California.
	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.	
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 exceed 7 applications 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. Apply when eggs or insects appear. Repeat as necessary until insects have been reduced below economic numbers.	7
	Cabbage Looper Green Peach Aphid Tobacco Hornworm	2/3 to 1 1/3 lbs. (10.5 to 21.25 oz.)		
	European Corn Borer	1 to 1 1/3 lbs. (16 to 21.25 oz.)		

PASTURE, RANGELAND, WASTELAND

Crops	Insects	Amount ORTHENE 75 WSP	Further Use Instructions	Days to Harvest
Pasture Rangeland 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

NON-BEARING CITRUS

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 lb. (10.5 oz.)	Apply as needed for control of existing populations.	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.
	Citrus Blackfly	2/3 to 1 lb. (10.5 to 16 oz.)	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.	Do not graze treated areas. DO NOT HARVEST citrus for one year after treatment.
	Ants, including Imported Fire Ants and Harvester Ants	Foliar Spray 1.0 lbs. (16 oz.)	Apply as needed for control of existing populations.	For mound drench treatment, 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.
		Mound Treatment - Drench Method: Mix 1 oz. in 5 gals. of water.		

SPECIALTY USES NON-CROP AREAS

Crop	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions
Non-Crop Areas (field borders, fencerows, roadsides, ditchbanks and borrow pits)	Grasshoppers	1/3 lb. (5.25 oz.)	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 by air, or in 10 to 20 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.

STORAGE AND DISPOSAL

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.

IMPORTANT INFORMATION. READ BEFORE USING PRODUCT.

LIMITED WARRANTY: 1. Valent U.S.A. Corporation warrants that this product conforms to the chemical description on the label and is reasonably fit for use under average conditions when used strictly in accordance with the directions on the labeling. Valent does not make nor authorizes any agent or representative to make, any other warranty, guarantee or representation, express or implied, concerning this product. Specifically, **NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE IS MADE.**

2. Critical and unforeseeable factors beyond Valent's control prevent it from eliminating all risks in connection with the use of this product. Such risks include, but are not limited to, damage to plants and crops to which product is applied, lack of complete control over the handling and application of this product, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit under average conditions for the uses stated on the labeling and even though label directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by Valent under 1 above) resulting from handling, storage, and use of the product.

3. Precautions stated on the labeling should be followed to avoid hazardous exposure to the product.

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AMMO® – Reg. TM of FMC Agri Chemical Group for cypermethrin insecticide.
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Valent U.S.A. Corporation
Walnut Creek, CA 94596-8025
Form R01550A0.5950309
Made in U.S.A.
EPA Reg. No. 59639-89
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19819

INDIVIDUAL UNIT PACKAGE LABEL

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