



# PRECAUTIONARY STATEMENTS

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## 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.

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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 PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THIS 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.

**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



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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.  Apply when eggs or insects first appear. Repeat as necessary to maintain control.	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)	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 <sup>®</sup> 15 G as an in-furrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment uses.	
	Fleahopper	1/3 lb. (5.25 oz.)		
	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 <sup>®</sup> 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 <sup>®</sup>	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.	



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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. <b>Stinkbugs and Cutworms:</b> Use ORTHENE 75 WSP at 1 lb. to 1 acre. <b>Cutworms -</b> 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 Perforator	KARATE® 1 E, 3.2 - 5.12 (Except CA) or	0.2		21
	Fall Armyworm	AMBUSH® 2 EC, 6.4 - 12.8	3.0		21
Cutworms	or				
Stinkbugs	POUNCE® 3.2 EC, 2 - 8*	3.0	21		
Sweetpotato	or				
Whitefly	AMMO® 2.5 EC, 2 - 5* or	1.0	21		
	CYMBUSH® 3 EC, 1.7 - 2.56* or	1.0	21		
	SCOUT® 0.3 EC, 6.4 - 8 (Except CA) or	0.19	28		
	SCOUT® X-TRA, 2.13 - 3.33 (Except CA)	0.19	28		

\* 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.







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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 5 1/2 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)**

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.	3
	Green Peach Aphid Flea Beetle Hornworm Tobacco Thrips	2/3 lb. (10.5 oz.)	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 1/2 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.	
	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.  Do not apply more than 5 1/2 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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VEGETABLE CROPS

Crops	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions	Days to Harvest
Beans and Lima Beans (Dry and Succulent Forms)	Fleahoppers 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)  0 (lima beans - succulent form)
	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.  Do not apply more than 2 3/4 lbs./A (2 lbs. ai) per season.	
	Armyworms (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 2 3/4 lbs. /A (2 lbs. ai) per season to Brussels Sprouts and Cauliflower.	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.)	Do not apply more than 2 3/4 lbs./A (2 lb. ai) per season.  Trim plants (tops removed) before shipment for use.  Do not use trimmed tops for food or feed.	

**VEGETABLES CROPS (Continued)**

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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 3/4 lbs./A (2 lbs. ai) 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 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 3/4 lbs./A (2 lbs. ai) per season.	

**WASTELAND**

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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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

