### Valent U.S.A. Corporation

# Orthene® 75 S Soluble Powder (INSECTICIDE)

(INSECTICIDE IN A WATER SOLUBLE BAG) This document contains language for Orthene 75 S Soluble Powder : WSP	and	
Active Ingredient Acephate (O.S-Dimethyl acetyl-	By	Wt.
phosphoramidothioate) Other Ingredients		

EPA Reg. No. 59639-26

## **KEEP OUT OF REACH OF CHILDREN** CAUTION

#### **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. Do not apply directly to water, 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 AND PAMPHLET. USE STRICTLY IN ACCOR-DANCE 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.

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#### AGRICULTURAL USE REQUIREMENTS

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

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

#### CHEMIGATION

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.

DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY

#### IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

#### RISKS OF USING THIS PRODUCT

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These 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 of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer 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 only 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 as described above. EXCEPT AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. 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 limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EX-CLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY All rights reserved. AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLI-GENCE, 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.

#### PROMPT NOTICE OF CLAIM

Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is latter, so that an immediate inspection of the affected property and growing crops can be made. If Buyer does not notify Valent of any claims, in such period, it shall be barred

from obtaining any remedy.

#### NO AMENDMENTS

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability, which may not be modified by any oral or written agreement.

#### 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.

#### WATER SOLUBLE PACKAGING (To Be Included on WSP Formulation Only) MULTIPLE PACKAGING

This bag contains multiple water soluble packets of ORTHENE 75 S Soluble Powder. Do not handle the packets with wet gloves or allow the packets to become wet prior to addition to spray tank. Do not break open packets. Refer to Tables of Equivalents to calculate the number of packets to use. If all packets are not used, close and reseal outer container to protect remaining packet(s).

#### PREPARATION OF SPRAY SOLUTION

To prepare spray solution, drop the unopened packet(s) of ORTHENE 75 S Soluble Powder into a spray tank containing at least one-half the total quantity of water required. Direct water at the floating packet(s) and continue to add water with the agitator running until the spray volume is reached. Do not add any liquid fertilizers, micronutrients or adjuvants to the spray solution until after the packet(s) and its contents have completely dissolved. Water soluble packet(s) should completely dissolve in approximately five minutes. Dissolution rate may be slowed by cold water, lack of agitation, or water containing high concentrations of boron or sulfur.

#### TABLES OF EQUIVALENTS

Amount of ORTHENE 75 S Soluble Powder	1-1/3 lbs.	1 lb.	⅔ lb.	1⁄3 lb.	4 oz.	2 oz.	
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Amount Active Contained	1 lb.	<sup>3</sup> / <sub>4</sub> lb.	1/2 lb.	¼ lb.	1/5 lb.	1/10 lb.
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#### TABLE OF EQUIVALENTS FOR 1 LB. PACKET

Rates of ORTHENE 75 S Soluble Powder Per Acre	Acres Treated by a 1 lb. Packet
4 oz.	4.00
¼₃ 1b.	3.00
2⁄3 lb.	1.50
1 lb.	1.00
1-1/3 lbs.	0.75
2 <sup>2</sup> / <sub>3</sub> lbs.	0.38
6-2/ <sub>3</sub> lbs.	0.15

#### TABLE OF EQUIVALENTS FOR 2<sup>1</sup>/<sub>2</sub> LB. PACKET

Rates of ORTHENE 75 S Soluble Powder Per Acre	Acres Treated by a 2 <sup>1</sup> / <sub>2</sub> lb. Packet
4 oz.	10.00
¼ 1b.	7.50
2⁄3 lb.	3.75
1 lb.	2.50
1-1/3 lbs.	1.88
2 ⅔ lbs.	0.94
6-2/ <sub>3</sub> lbs.	0.38

#### **GENERAL INFORMATION**

ORTHENE 75 S Soluble Powder is an insecticide for control of pests on selected agricultural crops and in certain non-crop areas. The active ingredient in ORTHENE 75 S Soluble Powder is acephate, a water soluble insecticide readily absorbed by plant roots and foliage to give systemic control of feeding insects. Insect pests are generally controlled more effectively by ORTHENE through in-gestion than by contact. Application of ORTHENE 75 S Soluble Powder to maintain control should be repeated only as directed.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP IN-JURY AND/OR ILLEGAL RESIDUES.

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.

NOTE: This product is sold by weight and package is full when packed, but due to the product's powdery nature, settling is likely to occur.

#### **BEANS AND LIMA BEANS—Dry and Succulent Forms** TABLE 1. Beans and Lima Beans—Dry and Succulent Forms—Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 20 to	Fleahoppers Grasshoppers	1/3 to 2/3 lb.	Apply when eggs or insects first appear. Repeat at 7 to 10 day spray	14 (snapbeans - succulent or dry beans)
by Ground. 2010 100 gals./A of spray <b>By Air:</b> Minimum of 2 gals./A of spray	Aphids (excluding Black Bean Aphid) Bean Leaf Beetle Bean Leafroller Cabbage Looper Cutworms Green Cloverworm Leafhoppers Mexican Bean Beetle Plantbugs (Lygus) Soybean Looper Thrips Whitefly (Except Sweetpotato or Silverleaf Whitefly)	4⁄3 to 1 1⁄3 lbs.	intervals as necessary to maintain control. Use higher rates for severe insect infestations.	-0- (lima beans - succulent form)
	Armyworms (excluding Beet Armyworm) Corn Earworm European Corn Borer	1 to $1 \frac{1}{3}$ lbs.		

Do not apply more than 2 3/3 lbs./A (2 lbs. ai) per season.

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### CELERY

#### TABLE 2. Celery—Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS	DAYS TO HARVEST		
FOLIAR	Green Peach Aphid	$\frac{2}{3}$ to $1\frac{1}{3}$ lbs.	Apply when eggs or insects first appear. Repeat at 3 to 10 day spray intervals as	21		
By Ground: 50 to 100 gals./A of spray	Cabbage Looper Fall Armyworms	1 <sup>1</sup> / <sub>3</sub> lbs.	necessary to maintain control.			
<b>By Air:</b> Minimum of 5 gals./A of spray						
USE PRECAUTIONS: Do not apply more than 2 % lbs./A (2 lbs. ai) per season. All celery must be trimmed (tops removed) before shipment for use. Do not use trimmed tops for food or feed.						

#### COLE CROPS BRUSSELS SPROUTS AND CAULIFLOWER TABLE 3. Cole Crops—Brussels Sprout and Cauliflower—Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR	Green Peach Aphid	<sup>2</sup> / <sub>3</sub> to 1 <sup>1</sup> / <sub>3</sub> lbs.	Use the high rate when heavy infestations of aphids are present.	14
<b>By Ground:</b> 25 to 150 gals./A of spray <b>By Air:</b> Minimum of 5 gals./A of spray	Cabbage Looper Diamondback Moth Larvae Imported Cabbage Worm	1 ¼ Ibs.	Apply when eggs or insects first appear. Repeat application as necessary to maintain control. <b>Diamondback Moth Larvae:</b> This insect has demonstrated an ability to develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current recommended control practices for this insect.	

Do not apply more than  $2 \neq_3$  lbs./A (2 lbs. ai) per season to Brussels Sprouts and Caulifie Do not feed trimmings to livestock or allow animals to graze in treated areas.

#### COTTON TABLE 4. Cotton—Recommendations for Use GENERAL USE PRECAUTIONS

Do not use treated seed for food or feed purposes or process for oil.

Do not feed gin trash to livestock.

Do not allow animals to graze on treated areas.

Do not apply more than 6 lbs. ai/A per season. This includes the use of PAYLOAD<sup>®</sup> 15 Granular as an in-furrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment uses.

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS	DAYS TO HARVEST
HOPPER BOX (Not for use with water soluble packaging)	Black (Greasy) Cutworm Cotton Aphids Thrips (Including Western Flower Thrips)	3 oz. to 4 oz.	Add dry ORTHENE 75 S to seed in the planter box to achieve an application rate of 3 to 4 oz./A. Even coverage of seed is required for acceptable insect control. Plants grown from improperly treated seed may not exhibit insect control. To obtain even coverage, fill planter box <sup>1/2</sup> till of seed, add <sup>1/2</sup> of required ORTHENE 75 S and mix thoroughly. Add remainder of seed and ORTHENE 75 S to the hopper box and thoroughly mix. Improved distribution of ORTHENE 75 S on seed can be achieved by premixing both in a separate container and then transferring treated seed to hopper box. Use of ORTHENE 75 S with air planters is not recommended since loss of product will occur.	
	r food or feed purposes or process for ed hopper box treatment is not permit		d the Blacklands of Texas.	
IN FURROW By Ground: 3 to 5 gals./A of spray	Aphids* Black (Greasy) Cutworm (Except CA) Thrips (Including Western Flower Thrips) *Excluding Cotton Aphids in AZ & CA	<sup>2/3</sup> to 1 <sup>1/3</sup> lbs. NOTE: For the Blacklands of Texas use 1 <sup>1/3</sup> lbs./A ORTHENE 75 S.	Use flat-fan nozzles for in-furrow application. Align nozzles to ensure good spray depositon into the seed furrow. Cone type nozzles are not recommended since unacceptable spray deposition may occur. Securely fasten spray-system tubing to furrow opener and check frequently to ensure proper positioning and operation. ORTHENE 75 S can be mixed with fungicides that are sprayed in-furrow for disease control.	
FOLIAR	Thrips (Including Western Flower Thrips)	3 oz. to 4 oz.	Apply when eggs or insects first appear. Repeat application as necessary to maintain control.	21
By Ground: 10 to 25 gals./A of spray By Air: 3 to 10 gals/A of spray (minimum of	Plantbugs (Lygus)	<sup>1/3</sup> to 1 <sup>1/3</sup> lbs. 1 to 1 <sup>1/3</sup> lbs. (AZ & CA)	Apply when eggs or insects first appear. Use highest rate for Lygus adults that have migrated into cotton. Repeat application as necessary to maintain control.	21
(minimum or 5 gals./A in AZ & CA)	Fleahopper	⅓ lb.	Apply when eggs or insects first appear. Repeat application as necessary to maintain control.	21

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APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS	DAYS TO HARVEST
	Cotton Aphid (excluding AZ and CA)	<sup>2</sup> / <sub>3</sub> to 1 <sup>1</sup> / <sub>3</sub> lbs.	This insect may develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current control recommendations. Repeat application as necessary to maintain control.	21
	Whitefly (excluding Sweetpotato Whitefly/Silverleaf Whitefly)	$\frac{2}{3}$ to 1 $\frac{1}{3}$ lbs.	Repeat application as necessary to maintain control.	21
	Armyworms (excluding Beet Armyworm) Cabbage Looper	1 ¼ lbs.	Apply when eggs appear and repeat at 3 to 7 day spray intervals.	21
	Bollworm Tobacco Budworm Adults Larvae Eggs/DEADHATCH <sup>®</sup>	<sup>2</sup> / <sub>3</sub> to 1 <sup>1</sup> / <sub>3</sub> lbs. (East of Rockies) 1 <sup>1</sup> / <sub>3</sub> lbs. (AZ & CA)	<ul> <li>Early Season: Use <sup>2</sup>/<sub>3</sub> lb./A for light infestation.</li> <li>Mid and Late Season: Use 1 to 1 <sup>1</sup>/<sub>3</sub> lbs./A for moderate to severe infestations.</li> <li>Apply when eggs appear and repeat at 3 to 7 day spray intervals.</li> <li>Moths of budworm larvae are controlled by direct contact with spray.</li> <li>Moth kill is most likely to occur when late evening applications are made.</li> <li>DEADHATCH: Control of emerging larvae by consumption of treated egg casings.</li> </ul>	21
	Stinkbugs	1 lb.	Apply when eggs appear and repeat at 3 to 7 day spray intervals.	21
	Pink Bollworm (AZ & CA)	1 ¼ lbs.	Apply when insects appear and repeat at 5 to 7 day spray intervals.	21
	Cutworms	1 lb.	Ground application is recommended. Aerial applications are less effective, but may be used. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant. Apply when insects first appear or damage is first noted and repeat application as necessary to maintain control.	21

# COTTON TANK MIXES TABLE 5. Cotton Tank Mixes—Recommendations for Use GENERAL USE PRECAUTIONS:

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. ai/A per season. This includes the use of PAYLOAD 15 Granular as an in-furrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment uses. Always read and follow all label directions when using any pesticide alone or in tank mix combinations. Observe all restrictions and precautions which appear on all product labels. The most restrictions applies when using a tank mix

all product labels. The most restrictive labeling applies when using a tank mix.

APPLICATION METHOD	PESTS CONTROLLED	ORTHENE 75 S SOLUBLE POWDER AND TANK MIX PARTNER	AMOUNT OF ORTHENE 75 S SOLUBLE POWDER + TANK MIX PARTNER PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 10 to 25 gals./A spray	Sweetpotato Whitefly (Silverleaf Whitefly)	ORTHENE 75 S Soluble Powder + DANITOL <sup>®</sup> 2.4 EC	⅔ lb. + 10⅔ to 16 fl. oz.	User should comply with all applicable directions, restrictions and precautions on the EPA registered label for DANITOL 2.4 EC Spray.	21
<b>By Air:</b> 3 to 10 gals./A of spray (minimum of 5 gals./A in CA)	Armyworms (excluding Beet Armyworm) Bollworm Cabbage Looper Cotton Aphid Cutworms Fleahopper Grasshoppers Pink Bollworm Plantbugs (Lygus, Mirids) Salt Marsh Caterpillar Thrips (Including Western Flower Thrips) Tobacco Budworm Whitefly (Excluding Sweetpotato/ Silverleaf Whitefly)	ORTHENE 75 S Soluble Powder + LORSBAN <sup>®</sup> 4E	<sup>1</sup> / <sub>3</sub> to 1 <sup>1</sup> / <sub>3</sub> lbs. + 1 to 2 pts.	User should comply with all applicable directions, restrictions and precautions on the EPA registered label for LORSBAN 4E. <b>Cutworms:</b> Use 1 lb./A of ORTHENE 75 S. <b>By Ground:</b> Ground application is recommended. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant. <b>By Air:</b> Aerial applications are less effective, but may be used. Apply when insects first appear or when damage is first noted and repeat application as necessary to maintain control.	21

#### **RESISTANCE-MANAGEMENT**

Cotton pest control programs, especially those for control of Silverleaf Whitefly populations, should employ a properly designed resistance management strategy. Such resistance-management strategies included mixture or rotation of alternative Database and format copyright © by VPC Acquisition Corporation. All rights reserved.

classes of chemistry including organophosphates, carbamates, pyrethroids or insect growth regulators. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternative insecticides.

#### COTTON TANK MIXES WITH PYRETHROIDS TABLE 6. Cotton Tank Mixes with Pyrethroids—Recommendations for Use GENERAL USE PRECAUTIONS:

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. ai/A per season. This includes the use of PAYLOAD 15 Granular as an in-furrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment uses.

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

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. Observe all restrictions and precautions which appear on all product labels. The most restrictive labeling applies when using a tank mix.

APPLICATION METHOD	PESTS CONTROLLED	ORTHENE 75 S SOLUBLE POWDER AND TANK MIX PARTNER	AMOUNT OF ORTHENE 75 S SOLUBLE POWDER + TANK MIX PARTNER PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 10 to 25 gals./A spray By Air: 3 to 5 gals./A spray	Aphids Bollworm Cabbage Looper Cotton Leaf Perforator Cutworms Fall Armyworm Fleahoppers	ORTHENE 75 S Soluble Powder + one of the following:	<sup>2</sup> / <sub>3</sub> lb. to 1 <sup>1</sup> / <sub>3</sub> lbs./A + one of the following:	Apply when eggs or insects first appear. Repeat application as necessary to maintain control. Stinkbugs: Use 1 lb/A of ORTHENE 75 S. *Cutworms: Use 1 lb/A of	21
5 gals/A spray (minimum 5 gals./A in CA) See aerial remarks	Pieadoppers Pink Bollworm (AZ & CA) Plantbugs Stinkbugs	AMMO <sup>®</sup> 2.5 EC*	Refer to the AMMO 2.5 EC approved label for use instructions.	ORTHENE 75 S. By Ground: Ground application is recommended. Control is most effective when	21
for Cutworms.	Sweetpotato/Silverleaf Whitefly Thrips (Including Western	ASANA <sup>®</sup> XL*	Refer to the ASANA XL approved label for use instructions.	ground application is made in the evenings and sprays are directed toward the base and lower portion of plant.	21
	Flower Thrips) Tobacco Budworm Whitefly	BAYTHROID <sup>®</sup> 2 EC	Refer to the BAYTHROID 2 EC approved label for use instructions.	By Air: 3 to 10 gals./A spray (minimum 5 gals./A in CA) Aerial applications are less effective, but may be used.	21
		CAPTURE <sup>®</sup> 2 EC	Refer to the CAPTURE 2 EC approved label for use instructions.	Apply when eggs or insects first appear or damage is first noted. Repeat application as necessary	21
		KARATE <sup>®</sup> 1 E (Except CA)	Refer to the KARATE 1 E approved label for use instructions.	to maintain control.	21
		SCOUT <sup>®</sup> X-TRA (Except CA)	Refer to the SCOUT X-TRA approved label for use instructions.		28

#### **RESISTANCE-MANAGEMENT**

Cotton pest control programs, especially those for control of Silverleaf Whitefly populations, should employ a properly designed resistance-management strategy. Such resistance-management strategies included mixture or rotation of alternative classes of chemistry including organophosphates, carbamates, pyrethroids or insect

#### CRANBERRY

TABLE 7. Cranberry—Recommendations for Use

growth regulators. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternative insecticides.

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR	Cranberry Blossom	1 ¼ lbs.	SPRINKLER IRRIGATION APPLICATION TO	90
	Worm		CRANBERRIES:	
By Ground or	Cranberry Cutworm		This product may only be applied through sprinkler irrigation	
Sprinkler:	Gypsy Moth		systems including center pivot, lateral move, end tow, side (wheel)	
Sufficient water to give	False Armyworm		roll, travelers, big gun, solid set or hand move. Do not apply this	
thorough coverage	Fireworms		product through any other type of irrigation system.	
	Spanworms		Crop injury, lack of effectiveness, or illegal pesticide residues in	
By Air: Minimum of	Sparganothis		the crop may result from non-uniform distribution of treated water.	
2 gals./A of spray			If you have questions about calibration, you should contact State	
			Extension Service specialists, equipment manufacturers or other	
			experts.	
USE PRECAUTIONS:			Do not connect an irrigation system (including greenhouse systems)	
Note: Limit to one application per growing season.		used for pesticide application to a public water system unless the		
	Do not apply more than 1 <sup>1</sup> / <sub>3</sub> lbs./A (1 lb. ai) per season.		label-prescribed safety devices for public water systems are in	
Do not apply from start of bloom un	til all berries set.		place.	

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of responsible person, 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 all nozzles 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. Database and format copyright © by VPC Acquisition Corporation. All rights reserved.

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APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS	DAYS TO HARVEST
a				

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 ensure 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.

HEAD LETTUCE—Crisphead Type Only TABLE 8. Head Lettuce—(Crisphead type only)—Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 10 to 60 gals./A	Aster Leafhopper Green Peach Aphid	2⁄3 to 1 1⁄3 lbs.	Repeat application as necessary to maintain control.	21 Spring, Summer and early Fall
By Ground: 10 to 60 gais./A of spray broadcast By Air: Minimum of 5 gals./A of spray	Armyworms (excluding Beet Armyworm) Cabbage Looper	1 ¼ lbs.	crops in all are Florida and Te in Arizona and	crops in all areas, Winter crops in Florida and Texas, late Fall crops in Arizona and Winter crops in Arizona and California.
	2 lbs. ai) per season. r allow animals to graze on treated area:		ntambar through November	

AZ & CA, Desert Areas: Do not apply after first head begins to form in crops which germinate from mid-September through November.

#### MINT

## PEPPERMINT AND SPEARMINT

TABLE 9. Mint—Peppermint and Spearmint—Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 20 to 100 gals./A of spray By Air: 5 to 10 gals./A of spray	Alfalfa Looper Aphids Cutworms	1 <i>V</i> <sub>3</sub> Ibs.	Apply when eggs or insects first appear. Make one repeat application, if necessary, to maintain control.	14
FOLIAR By Ground: 40 to 100 gals./A of spray	Strawberry Root Weevil Adult Black Vine Weevil Adult	1 ¼ lbs.	Strawberry Root and Black Vine Weevil: For control, apply in water in a minimum of 40 gals. spray per acre by ground. Good spray coverage and canopy spray penetration is critical for control. Increase spray volume and pressure with tall or dense mint canopy. Apply after adult emergence is complete but prior to egg laying. Apply at dusk or during the night on a warm still evening. Two applications 10 to 14 days apart may be necessary to reduce heavy infestations.	14

Do not graze treated areas.

#### NON-BEARING CITRUS TABLE 10. Non-Bearing Citrus—Recommendations for Use CITRUS

#### **GENERAL USE PRECAUTIONS:**

Do not graze treated areas. DO NOT HARVEST citrus for one year after treatment.

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS
FOLIAR By Ground: 100 to 200 gals./A of spray	Aphids Grasshoppers Katydid Mealybugs Orangedogs Plantbugs Thrips Whiteflies (except Sweetpotato/Silverleaf	²⁄₃ lb.	Repeat application as necessary to maintain control.
	Citrus Blackfly*	<sup>2</sup> / <sub>3</sub> to 1 lb.	Apply when eggs or insects first appear. Use the high rate when a heavy infestation is present. Repeat at 7 to 10 day spray intervals.
-	Ants Including Imported Fire Ants and Harvester Ants*	1 lb.	Repeat application as necessary to maintain control.
	ees for coverage with total application not to e on spray coverage and the amount of moisture		·
SOIL MOUND TREATMENT (Not for use with water soluble packaging) DRENCH METHOD	Ants Including Imported Fire Ants and Harvester Ants *	1 oz./5 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. Repeat application as necessary to maintain control.

APPLICATION METHOD PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS
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\*Not registered in CA for control of Citrus Blackfly and Harvester Ants.

#### NON-CROP AREAS

#### FIELD BORDERS, FENCEROWS, ROADSIDES, DITCHBANKS, BORROW PITS TABLE 11. Non-Crop Areas—Field Borders, Fencerows, Roadsides, Ditchbanks, Borrow Pits—Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS
FOLIAR By Ground: 10 to 20 gals./A of spray By Air: 1 to 5 gals./A of spray (minimum of 5 gals./A in CA)	Grasshoppers	<i>1</i> /3 lb.	For early to mid-season application. Use the higher volumes when spraying dense foliage. An approved drift retardant may be added to aid in controlling drift and reducing evaporation of aerial sprays.
<b>USE PRECAUTION:</b> Do not graze or feed vegetation cut from treat	ed areas.		

#### WASTELAND

#### TABLE 12. Non-Crop Areas—Wasteland—Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS
FOLIAR By Ground: 10 to 20 gals./A of spray By Air: <sup>1/2</sup> gal./A of spray (minimum of 5 gals./A in CA)	Black Grass Bugs Grasshoppers Mormon Crickets	¼ to ¼ lb.	Use the higher volumes when spraying dense foliage. An approved drift retardant may be added to aid in controlling drift and reducing evaporation of aerial sprays.
LICE DECAUTIONS.			

**USE PRECAUTIONS:** Do not make more than one application per season.

Do not graze or feed vegetation cut from treated areas

#### PEANUTS

#### TABLE 13. Peanuts—Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 10 to	Grasshoppers	<sup>1</sup> / <sub>3</sub> to <sup>2</sup> / <sub>3</sub> lb.	Apply when eggs or insects first appear. Repeat application as necessary to maintain control. ORTHENE can be tank mixed with registered at-cracking and	14 (of digging)
50 gals./A of spray By Air: 5 to	Thrips	<sup>1</sup> / <sub>2</sub> to 1 lb.	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	
10 gals./A of spray	Corn Earworm Fall Armyworm Leafhoppers Loopers Velvetbean Caterpillar	1 to 1 <sup>1</sup> / <sub>3</sub> lbs.	To determine prevalence and provide no need dosage rates are exceeded. To determine physical compatibility, pour the recommended proportions of each chemical with the same proportion of water as will be present in the chemical supply tank into a suitable container, mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is considered physically compatible. When mixing wettable powder or dry flowable formulations, add and disperse these first, then add liquid pesticides. Conduct another compatibility test at concentrations which will be present in the irrigation lines. If there is any separation which cannot be remixed readily, VALENT recommends that the combination not be used. Combinations should be kept agitated and should be applied immediately. Do not allow combinations to set for prolonged periods in the chemical supply tank or irrigation lines.	

#### **USE PRECAUTIONS:**

Do not feed treated forage or hay to livestock.

Do not allow animals to graze on treated areas.

Do not apply more than 4.0 lbs. ai (5 ½ lbs. formulated product) per acre per crop cycle. This includes the use of ORTHENE 75 S on peanuts as a foliar spray in addition to the peanut planter box seed treatment use.

PLANTER BOX SEED TREATMENT APPLICATION (HOPPER BOX)       Thrips       4 oz.       Apply ORTHENE 75 S at a rate of 4 oz. per 100 lbs. of peanut seed in a planter box as a dry powder. Even coverage of seed is required for acceptable insect control.         Not for use with water soluble packaging)       DO NOT apply more than 4 oz. per acre.       MIXING: This procedure for application of ORTHENE 75 S to peanut seed must be followed to ensure complete and adequate coverage: STEP 1: Fill planter box ¼ full of seed. Apply ¼ of total amount of ORTHENE 75 S evenly over the surface of the peanuts. STEP 2: Fill planter box ¼ full of seed. Apply ¼ of total amount of ORTHENE 75 S evenly over the surface of the peanuts. STEP 3: Fill planter box with remaining seed. Apply ¼ of total amount of ORTHENE 75 S evenly over the surface of the peanuts. STEP 3: Fill planter box with remaining seed. Apply ¼ of total required amount of ORTHENE 75 S evenly over the surface of the peanuts. STEP 3: Fill planter box with remaining seed. Apply ¼ of total required amount of ORTHENE 75 S evenly over the surface of the peanuts. STEP 3: Fill planter box with remaining seed. Apply ⅓ of total arequired amount of ORTHENE 75 S evenly over the surface of the peanuts. DO NOT attempt to mix ORTHENE 75 S with the seed peanuts by stirring or other mechanical agitation. Such action will result in unacceptable damage to seed prior to planting. DO NOT USE treated seed for food or feed.	CROP	PESTS CONTROLLED	RATE OF ORTHENE 75 S PER 100 LBS. OF PEANUT SEED	FURTHER USE INSTRUCTIONS
	TREATMENT APPLICATION (HOPPER BOX) (Not for use with water soluble	Thrips	<b>DO NOT</b> apply more	<ul> <li>box as a dry powder. Even coverage of seed is required for acceptable insect control.</li> <li>MIXING: This procedure for application of ORTHENE 75 S to peanut seed must be followed to ensure complete and adequate coverage:</li> <li>STEP 1: Fill planter box ¼ full of seed. Apply ¼ of total amount of ORTHENE 75 S evenly over the surface of the peanuts.</li> <li>STEP 2: Fill planter box ⅔ full of seed. Apply ⅓ of total amount of ORTHENE 75 S evenly over the surface of the peanuts.</li> <li>STEP 3: Fill planter box ⅔ full of seed. Apply ⅓ of total amount of ORTHENE 75 S evenly over the surface of the peanuts.</li> <li>STEP 3: Fill planter box with remaining seed. Apply ⅓ of total required amount of ORTHENE 75 S evenly over the surface of the peanuts.</li> <li>DO NOT attempt to mix ORTHENE 75 S with the seed peanuts by stirring or other mechanical agitation. Such action will result in unacceptable damage to seed prior to planting.</li> </ul>

#### USE PRECAUTIONS:

Do not apply more than 4.0 lbs. ai (5 <sup>1</sup>/<sub>3</sub> lbs. formulated product) per acre per crop cycle. This includes the use of ORTHENE 75 S on peanuts as a foliar spray in addition to the peanut planter box seed treatment use.

# PEPPERS BELL TABLE 14. Peppers—Bell—Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR	Grasshoppers	1/3 to 2/3 lb.	Apply when eggs or insects first appear.	7
<b>By Ground:</b> 25 to 150 gals./A of spray <b>By Air:</b> Minimum of 3 gals./A of spray (minimum of 5 gals./A in CA)	Cabbage Looper Green Peach Aphid Tobacco Hornworm	2/3 to 1 1/3 lbs.	Repeat application as necessary to maintain insect-pest populations below economically damaging numbers.	
(initialition of organis) in erry	European Corn Borer	1 to 1 <sup>1</sup> / <sub>3</sub> lbs.	]	
USE PRECAUTION: Do not apply more than 2 <sup>2/2</sup> lbs /A (2 lbs _ai) per	r season		·	•

Do not apply more than  $2\frac{2}{3}$  lbs./A (2 lbs. ai) per season.

# NON-BELL FOR USE IN MIDWESTERN, EASTERN STATES AND PUERTO RICO ONLY. TABLE 15. Peppers—Non-Bell—Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 40 to 150 gals./A of spray	Aphids	2/ <sub>3</sub> lb.	Repeat at 7 to 10 day spray intervals as necessary.	7
<b>USE PRECAUTION:</b> Do not apply more than 1 <sup>1</sup> / <sub>3</sub> lbs./A (1 lb. ai) per sea	son.			

# TOBACCO (EXCEPT CA) TABLE 16. Tobacco—Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS	DAYS TO HARVEST
<b>GENERAL USE PRECAUTIONS</b> Do not apply more than 5 <sup>1</sup> / <sub>3</sub> lbs./A (4 lbs. ai)	) per season. This includes the use of	ORTHENE in transplant water, p	plant bed, soil, float bed (greenhouse) and foliar	applications.
FLOATBED FOLIAGE: Apply at the equivalent of 1 tablespoon in 3 gals. of water per every 1,000 sq. ft. of bed.	Cutworm Flea Beetle Green Peach Aphid Tobacco Aphid	1 lb.	Apply evenly to ensure thorough coverage. <b>NOTE:</b> Floatbed water should be disposed of in the transplanted field as transplanter water or foliar spray.	
PLANT BED FOLIAGE: Apply at the equivalent of 1 tablespoon in 1 gal. of water per every 1,000 sq. ft. of bed.	Cutworm Flea Beetle Green Peach Aphid Tobacco Aphid	1 lb.	Apply evenly to ensure thorough coverage.	
<b>TRANSPLANT</b> Apply in a minimum of 100 gals. of transplant water per acre.	Cutworms Flea Beetle Green Peach Aphid Potato Tuberworm Tobacco Aphid Tobacco Thrips	1 lb.	Provides control for approximately 3 to 4 weeks after transplanting. For control late in the season, apply foliar sprays of ORTHENE 75 S Soluble Powder.	
USE PRECAUTIONS: Do not apply more than 1 lb. ORTHENE 75	S Soluble Powder per acre as a transp	lant-water application as some pl	nytotoxicity may occur.	
FOLIAR Database and format copyright ©	Grasshoppers by VPC Acquisition Corpor	<sup>1/3</sup> to <sup>2/3</sup> lb. ation. All rights reserve	Repeat on a 7-day spray schedule or as necessary.	3

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 75 S PER ACRE	REMARKS	DAYS TO HARVEST
<b>By Ground:</b> 10 to 50 gals./A of spray <b>By Air:</b> Minimum of 3 gals./A of spray	Flea Beetle Green Peach Aphid Hornworm Tobacco Thrips	2/3		
	Stinkbugs Tobacco Aphid Vegetable Weevils	<sup>2</sup> / <sub>3</sub> to 1 lb.		
	Budworm Cabbage Looper Cutworm Japanese Beetle	1 lb.		
SOIL MOUND TREATMENT (Not for	use with water soluble packaging)			•
DRY METHOD	Ants (Including Imported Fire Ants and Harvester Ants)	1 to 2 tsps.	Evenly distribute over the mound.	3
DRENCH METHOD	Ants (Including Imported Fire Ants and Harvester Ants)	1 oz./5 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.	

#### **USE PRECAUTIONS:**

Treat a maximum of 13 mounds per acre.

Do not treat more than once per season.

Apply in the early morning or late afternoon, when ants are most active, for best results.

Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest

### 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

ORTHENE 75 S Soluble Powder: Completely empty canister into application equipment. Do not reuse container. Dispose of empty canister in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

ORTHENE 75 Water Soluble Packaging: Do not reuse the outer bag. Dispose of the outer bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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ASANA®-Reg. TM of DuPont for esfenvalerate insecticide.

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CAPTURE®-Reg. TM of FMC Corporation for bifenthrin insecticide miticide. DANITOL®-Reg. TM of Sumitomo Chemical Company Ltd. for fenpropathrin

insecticide-miticide. KARATE®-Reg. TM of Zeneca Agrochemicals Co. U.K. for lambdacyhalothrin insecticide.

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