



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

OCT 17 1995

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OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Mr Mark Herbst
Registration Assistant
Valent U.S.A. Corporation
1333 N California Blvd. Suite 600
Walnut Creek, CA 94596-8025

Dear Mr. Herbst:

Subject: Deletion of Soybeans
Orthene 75S Soluble Powder
EPA Registration No. 59639-26
Your Application Dated May 31, 1994
Federal Register Notice of September 7, 1994

The amendment referred to above, submitted in connection with registration under FIFRA, is acceptable, provided that you:

Submit one copy of your final printed labeling incorporating the following corrections before you release the product for shipment. These corrections were previously transmitted to you in our letter of November 14, 1994.

1. Correct the maximum application rate for non-bearing citrus from 1 1/3 lbs. product to 1 lb. product to be consistent with the EPA registered product label for this use (label stamped accepted with our letter of September 27, 1993 for the subject product).

2. Either delete the asterisk appearing on page 16 after the word, "water" under the heading "Small Volume Spray Equipment" or add the appropriate footnote for it. It is noted that the registered label for the subject product specified the following as a footnote to this asterisk: "use a 16 oz. measuring cup".

3. On page 20, under "recommended application" for "Black Turfgrass Atenuis", specify the minimum amount of water to be applied per 1,000 sq. ft.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

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amended labeling constitutes acceptance of this condition.

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

Sincerely yours,

Robert A. Forrest
Product Manager (14)
Insecticide-Rodenticide Branch
Registration Division (7504C)



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ACCEPTED
with COMMENTS
in EPA Letter Dated

OCT 17 1995

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
59639-26

ORTHENE® 75 S Soluble Powder

(INSECTICIDE)

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

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

KILLS FIRE ANTS

NET WEIGHT 10 POUNDS

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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 pests 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. In case of eye contact, wash eyes with fresh water for 15 minutes. If irritation continues, see a doctor. For skin contact, wash skin with plenty of soap and water. If inhaled, remove person from exposure area.

NOTE TO PHYSICIAN: Emergency information - call 1-800-892-0099. Acephate is 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 its product is used to produce agricultural plants on farm, forests, or greenhouses.

For other areas, including golf courses and other non-agricultural areas, do not enter treated areas without protective clothing until sprays have dried.

DIRECTIONS

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 S Soluble Powder	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.

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COTTON

Crop	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions	Day 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
	Plantbugs (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 Sweetpotato Whitefly (Silverleaf whitefly)	2/3 to 1 1/3 lbs. (10.5 to 21.25 oz.) 2/3 lb. (10.5 oz.) + *DANITOL® 10 2/3 to 16 fl. 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. *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. (CA, AZ) (21.25 oz.)	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.)	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.	
	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 S + LORSBAN® 4E Per Acre	Further Use Instructions	Days to Harvest
Cotton	Armyworms (excluding Beet Armyworm) Bollworm Cabbage Looper Cotton Aphid Cutworms Fleahopper Grasshoppers Pink Bollworm Plant Bugs (Lygus, Mirids) Salt Marsh Caterpillar Thrips Tobacco Budworm Whitefly (Excluding Sweetpotato Whitefly)	1/3 to 1-1/3 lbs. (5.25 to 21.25) + 1 to 2 pts.	Do not feed gin trash or treated forage to livestock. Do not allow livestock to graze on treated areas. *Cutworms - Use ORTHENE at 1 lb. per acre. Control measures are most effective when ground applications are made in the evenings and the spray is directed toward the lower portion and base of the plant. Apply in water at 10 to 25 gals. spray per acre by ground. Aerial applications are not as effective in controlling cutworms. However, should aerial application be necessary, apply in water at 3 to 10 gals. spray per acre (minimum 5 gals. per acre in CA). Apply when insects first appear or damage is first noted and repeat to maintain control.	21

COTTON TANK MIXES (Continued)

Crop	Insects	Amount ORTHENE 75 S (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 S		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 S 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.	21
	Tobacco	1 1/3 lb. to 2 acres up to			
	Budworm	1 1/3 lb. to 1 acre			
	Cabbage	PYDRIN® 2.4 EC, 5.3 - 10.67	2.0		
	Looper	or			
	Plant bugs	ASANA® 1.9 EC, 1.4 - 3.4*	0.5		
	Thrips	or			
	Fleahoppers	ASANA® XL, 3.9 - 9.6*	0.5		
	Pink	or			
	Bollworm (CA, AZ)	CAPTURE® 2 EC, 1.3 - 6.4	0.5		
	Aphids	or			
	Whitefly	BAYTHROID® 2 EC, 1.6 - 3.2	0.89		
	Cotton Leaf Perforator	or			
	Fall Armyworm	KARATE® 1 E, 3.2 - 5.12 (Except CA) or	0.2		
Cutworms	AMBUSH® 2 EC, 6.4 - 12.8	3.0			
Stinkbugs	or				
Sweet Potato	POUNCE® 3.2 EC, 2 - 8*	3.0			
Whitefly	or				
	AMMO® 2.5 EC, 2 - 5*	1.0			
	or				
	CYMBUSH® 3 EC, 1.7 - 2.56*	1.0			
	or				
	SCOUT® 0.3 EC, 6.4 - 8 (Except CA) or	0.19			
	SCOUT® X-TRA, 2.13 - 3.33 (Except CA)	0.19			

* 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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**COTTON SEED HOPPER BOX TREATMENT
(EXCEPT AZ, CA AND THE BLACKLANDS OF TEXAS)**

Crop	Insects	Amount ORTHENE 75 S Soluble Powder Per Acre	Further Use Instructions
Cotton	Thrips Cotton Aphids Black (Greasy) Cutworm	3 to 4 oz.	Apply 3 to 4 oz. ORTHENE 75 S Soluble Powder per acre in the planter box as a dry powder. Even coverage is required for acceptable insect control. To obtain even coverage, fill planter box 1/2 full of seed, add the proper amount of ORTHENE 75 S Soluble Powder and mix thoroughly with a stick. Add the remainder of the seed to the planter box and the additional required amount of ORTHENE 75 S Soluble Powder followed by thorough mixing. For improved mixing premix seed with ORTHENE 75 S Soluble Powder in a suitable container, then pour treated seed into planter box. Loss of ORTHENE 75 S Soluble Powder will occur if air planters are used. Plants grown from improperly covered seed will not exhibit insect control. Do not use treated seed for food or feed purposes or process for oil.

COTTON IN-FURROW APPLICATION

Crop	Insects	Amount ORTHENE 75 S 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)	<p>Refer to the ORTHENE 75 S conversion chart before making product application.</p> <p align="center">ORTHENE 75 S CONVERSION CHART</p> <p align="center"><u>LBS. A.I TO OZ. FORMULATED PRODUCT</u></p> <table border="0"> <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 lb. active ORTHENE 75 S 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. active ORTHENE 75 S rate (21.3 oz. formulated product per acre.) ORTHENE 75 S 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														

FIELD CROPS

Crops	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions	Days to Harvest
Peppermint Spearmint	Alfalfa Looper Cutworms Aphids	1 1/3 lbs. (21.25 oz.)	Apply in water at 5 to 10 gals. spray per acre by air or 20 to 100 gals. spray per acre by ground. Apply when eggs or insects first appear. Make one repeat application, if necessary, to maintain control. Do not apply more than 2 2/3 lbs. per acre per season. Do not use spent mint hay for feed for dairy animals.	14
Peanuts	Grasshoppers	1/3 to 2/3 lb. (5.25 to 10.5 oz.)	Apply in water at 10 to 50 gals. spray per acre by ground or in 5 to 10 gals. spray per acre by air. Begin applications when insects first appear and repeat as needed to maintain control. Do not feed treated forage or hay to livestock or allow animals to graze treated areas.	14 (of digging)
	Thrips	2/3 to 1 lb. (10.5 to 16 oz.)		
	Corn Earworm Fall Armyworm Leafhoppers Loopers Velvetbean Caterpillar	1 to 1 1/3 lbs. (16 to 21.25 oz.)		

TOBACCO

TOBACCO TRANSPLANT WATER APPLICATION (EXCEPT CA)

Crop	Insects	Amount ORTHENE 75 S 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 S Soluble Powder. Apply in a minimum of 100 gals. of transplant water per acre. Do not apply more than 1 lb. ORTHENE 75 S Soluble Powder per acre as a transplant water application as some phytotoxicity may occur.

TOBACCO FOLIAR APPLICATION (EXCEPT CA)

Crop	Insects	Amount ORTHENE 75 S 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.)	Do not re-enter sprayed areas until the spray deposit has dried.	
	Budworm Cabbage Looper Cutworm	1 lb. (16 oz.)		

TOBACCO PLANT BED APPLICATION (EXCEPT CA)

Crop	Insects	Amount ORTHENE 75 S 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 tablespoon in 1 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 S 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 tablespoon 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 S	Further Use Instructions	Days to Harvest
Tobacco	Ants, including Imported Fire Ants and Harvester Ants	Mound Treatment- Dry Method: Evenly distribute 1 to 2 teaspoons over the mound. Drench Method: Mix 1 oz. in 5 gals. of water. Apply 1 gal. of mix to each mound area by sprinkling the mound unit 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 S 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 S 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)
	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	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)
	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 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 S 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 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. (16.5 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 S	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.)	<p>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.</p> <p>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.</p> <p>Do not make more than one application per season.</p> <p>Do not apply when lactating dairy cattle are present. Do not graze or feed 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.</p>	21 for hay
	Ants, Including Imported Fire Ants and Harvester Ants	<p>Mound Treatment - Dry Method: Evenly distribute 1 to 2 teaspoons over the mound.</p> <p>Drench Method: Mix 1 oz. in 5 gals. of water. 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.</p>	<p>For best results apply the material in the early morning or late afternoon when the ants are most active.</p> <p>Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.</p> <p>Grass in treated area may be injured.</p> <p>Treat maximum of 13 mounds per acre. Do not treat mound more than once per season.</p> <p>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.</p>	21

NON-BEARING CITRUS

Plants	Insects	Amount ORTHENE 75S per Acre	Time of Application	Recommended Application
Non-bearing Citrus (including citrus nursery seedlings) *(Except CA)	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 75S 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 1/3 lb. (10.5 to 21.25 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 S 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.
Non-Crop Areas	Ants, Including Imported Fire Ants and Harvester Ants	Mound Treatment - Dry Methods: Evenly distribute 1 to 2 teaspoons over the mound. Drench Method: Mix 1 oz. in 5 gals. of water. 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. Grass in treated area may be injured. Do not treat mound more than once per season.

SPECIALTY USES CONTAINER GROWN NURSERY STOCK

Plants	Insects	Amount ORTHENE 75 S Per 100 Gals.	Time of Application	Recommended Application
Container Grown Nursery Stock (Arborvitae, Azalea, Camellia, Rhododendron, Roses, Viburnum, Yew)	Black Vine Weevil Strawberry Root Weevil	1 lb. (16 oz.)	Application should be made by mid-September for greenhouse stock and by mid-October for outdoor stock. Consult your local county extension agent for information on the identification and control of root weevils on ornamentals.	Apply the specified amount of ORTHENE 75 S Soluble Powder per 100 gals. of solution so as to thoroughly drench the root system.
	Ants, including Imported Fire Ants and Harvester Ants	1 lb. (16 oz.)	Apply as needed to control the pest.	

SMALL VOLUME SPRAY EQUIPMENT

Preparation of ORTHENE Spray Mix Using a Small Fluid Ounce Measuring Cup		
Label Recommendation ORTHENE 75 S in 100 Gals. Water	Equivalent ORTHENE 75 S in 20 Gals. Water*	Equivalent ORTHENE 75 S in 1 Gal. Water (tsp./Gal.)
1/3 lb.	1.1 oz.	1/2 tsp.
2/3 lb.	2.1 oz.	1 tsp.
1 lb.	3.2 oz.	1 1/2 tsp.
1-1/3 lbs.	4.3 oz.	2 tsp.

TREES AND SHRUBS

Plants	Insects	Amount ORTHENE 75 S Per 100 Gals.	Time of Application	Recommended Application
Trees and Shrubs (Except Flowering Crabapple, see below).	Aphids Bagworms Birch Leafminer Tent Caterpillars* Lace Bugs Leafrollers	1/3 lb. (5.3 oz.)	As the insects begin to appear.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 100 gals. water with a hydraulic sprayer. The addition of a suitable sticker improves control of Gypsy Moth larvae. *Mist blower application. Adjust rates to 1-1/3 lbs. per 100 gals. water for Gypsy Moth control and 1.0 lb. per 100 gals. water for Tent Caterpillar control. Do not apply to Huckleberry, Balm of Gilead, Cottonwood, Lombardy Poplar and Viburnum suspensum.
	Douglas Fir Tussock Moth Larvae Gypsy Moth Larvae* Webworms	2/3 lb. (10.5 oz.)	As the insects begin to appear.	
	Scales (Crawlers)	2/3 lb. (10.5 oz.)	As crawlers begin to appear. Repeat applications, at a 2 week or more interval, may be necessary where there is continuous crawler production.	Nursery crops. Before treating large plantings, spray only a few plants and observe two weeks for phytotoxicity.
	Ponderosa Pine Needle Miner	2/3 lb. (10.5 oz.)	Time of application is important. Consult your Farm Advisor or County Extension Agent.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 100 gals. water with a hydraulic sprayer as a full coverage spray.
	Grasshoppers	2/3 lb. (10.5 oz.)	As the grasshoppers begin to appear.	
	California Oakworm Cankerworms (Spring and Fall)	1/3 to 2/3 lb. (5.3 to 10.5 oz.)	As the insects begin to appear. Use the higher amount when the larger larvae are present.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 100 gals. water with a hydraulic sprayer.
	Nantucket Pine Tip Moth Larvae	1 lb. (16 oz.)	Time of application is important. Consult your Farm Advisor or County Extension Agent. Repeat applications will be required for subsequent generations.	
	Root Weevil Adults	1 lb. (16 oz.)	Apply when first feeding damage occurs. Repeat applications, at four week intervals until the first heavy frost, may be necessary for complete foliage protection.	
	Box Elder Bugs Sawflies Budworms Leafhoppers	1 lb. (16 oz.)	As the insects begin to appear.	
	Japanese Beetle	1-1/3 lbs. (21.3 oz.)	As the Japanese Beetles begin to appear. Repeat applications, at 2 week intervals, may be necessary.	
Elm Leaf Beetle (larvae)	1-1/3 lb. (21.3 oz.)	As the larvae begin to appear. ORTHENE will not prevent Elm Leaf Beetle eggs from hatching.		

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TREES AND SHRUBS (Continued)

Plants	Insects	Amount ORTHENE 75 S Per 100 Gals.	Time of Application	Recommended Application
Douglas Fir (Christmas Trees)	Douglas Fir Needle Midge	2/3 lb. (10.5 oz.) (2/3 lb. per acre)	Application should be made no more than 2 weeks prior to bud burst. For additional pest management information, consult your County Extension Service.	Apply the specified amount of ORTHENE 75 S Soluble Powder in not less than 2 gals. of spray per acre by air or in 100 gals. of spray per acre by ground.
Flowering Crabapples	Aphids Tent Caterpillars Leafrollers	1/3 lb. (5.3 oz.)	As the insects begin to appear.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 100 gals. water with a hydraulic sprayer. Do not apply more often than 3 times in a growing season at a 4 week interval. Caution: Phytotoxicity has occurred on the following Crabapple varieties: Hope, Ichonoski, Malusfloribunda, Pink Perfection, Red Wine and Snow Cloud.
Crape Myrtle	Aphids	3 to 4 level Tbs. (0.8-1.1 oz.) per 1 Tbs. of water.	As aphids begin to appear.	Make a paint-on slurry by mixing the specified amount of ORTHENE 75 S Soluble Powder with 1 tablespoon of water. Remove the loose bark from the trunk areas to be treated. Completely paint a band around each trunk to a width twice its diameter. Application should be made to trunks within a zone 6 to 12 inches above the ground and below the point where branching begins. For multi-trunk plants be certain to treat all trunks. For either single or multi-trunk plants, application should be made as low as possible within the recommended treatment zone.

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COMMERCIAL TURFGRASS, LAWNS, AND OTHER RECREATIONAL TURFGRASS AREAS
DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS. DO NOT FEED TREATED GRASS TO LIVESTOCK.

Plant	Insects	Amount ORTHENE 75 S Per 1000 Sq. Ft.	Time of Application	Recommended Application	
Turfgrass Residential & commercial)	Fall Armyworm Yellow Striped Armyworm Southern Armyworm	1/2 to 1.2 oz. (1 1/3 to 3 1/4 lbs. per acre)	As the insects appear. A repeat application at 2 week intervals may be necessary.	Apply the specified amount of ORTHENE 75 S Soluble Powder per 1,000 sq. ft. Use a minimum of 5 gals. water per 1,000 sq. ft. to obtain good coverage.	
	Cutworm	1.2 to 2.4 oz. (3 1/4 to 6 2/3 lbs. per acre)			
	Chinch Bugs	1.2 to 2.4 oz. (3 1/4 to 6 2/3 lbs. per acre)	Apply as needed for adult population knockdown (10 to 14 days).		Apply the specified amount of ORTHENE 75 S Soluble Powder per 1,000 sq. ft. Use 1 to 15 gals. water per 1,000 sq. ft. to obtain good coverage.
	Fleas	1.2 to 2.4 oz. (3 1/4 to 6 2/3 lbs. per acre)	Apply as needed for knockdown (7 to 10 days) only of existing adult populations.		
	Sod Webworm (Crambus spp.)	1/2 to 1 oz. (1 1/3 to 2 3/4 lbs. per acre)	As sod webworms begin to appear. Use the higher amount when quick knockdown is needed or with heavy infestations. Repeat application may be necessary. Do not repeat at more 1 week intervals.		
	Leafhopper	1 oz. (2 3/4 lbs. per acre)	As the leafhoppers begin to appear. A repeat application at 1 week intervals may be necessary.		

COMMERCIAL TURFGRASS, LAWNS, AND OTHER RECREATIONAL TURFGRASS AREAS (Cont.)
DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS. DO NOT FEED TREATED GRASS TO LIVESTOCK.

Plant	Insects	Amount ORTHENE 75 S Per 1000 Sq. Ft.	Time of Application	Recommended Application
Turfgrass (Residential & Commercial)	Mole Crickets (Except CA) Spittlebug (Except CA)	1.0 to 1.9 oz. (2.66 - 5.2 lbs. per acre)	As mole crickets begin to appear. For knockdown of existing populations, more than one application may be required throughout the growing season. For heavy infestations, use the higher dosage rate.	<p>Apply the specified amount of ORTHENE 75 S Soluble Powder per 1,000 sq. ft. Use 1 to 15 gals. water per 1,000 sq. ft. to obtain good coverage.</p> <p>Apply during late afternoon or early evening hours and after an irrigation. Do not irrigate after application.</p> <p>The use of a lemon fragrance substance in the spray mix may enhance control by acting as a flushing agent and thus provide increased mole cricket contact with the ORTHENE 75 S Soluble Powder. The following lemon-scented products have been shown to be effective flushing agents: Lemon Joy, Lemon Palmolive, and Mighty Myrt Products Manufacture-Base Pure Lemon Fragrance. The use rate for these lemon-scented products is 2 teaspoons per gallon of water for small total mix volumes or 6 fl. oz. per 50 gals. of water for large total mix volumes.</p>
	Greenbug (Schizaphis graminum) Grasshoppers	1/2 oz. (1 1/3 lbs. per acre)	Apply when insects or their damage first appears. Repeat as necessary. Application is not to be repeated at more than 1 week intervals.	Apply the specified amount of ORTHENE 75 S Soluble Powder. Use 4 gals. of water per 1,000 sq. ft. to obtain good coverage. Do not mow turfgrass for at least 24 hours after application.
	Black Turfgrass Ataenuis (Except CA)	1.5 to 1.9 oz (4.1 to 5.2 lbs. per acre)	Apply when insects or their damage first appear.	Apply the specified Amount of ORTHENE 75 S per 1,000 sq. ft. Use adequate water to assure good coverage. Irrigate lightly after application (not more than 1/2 inch). Use the higher rate for severe infestations.
Dichondra	Cutworm Flea Beetle Southern Armyworm Yellow Striped Armyworm	1.0 to 1.9 oz. (2.7 to 5.2 lbs. per acre)	As the insects appear. Repeat at 2 week intervals as necessary.	Apply the specified amount of ORTHENE 75 S Soluble Powder per 1,000 sq. ft. Use a minimum of 15 gals. of water per 1,000 sq. ft. to obtain good coverage.

MOUND TREATMENT OF FIRE ANTS IN TURFGRASS

Plant	Insects	Amount ORTHENE 75 S	Time of Application	Recommended Application
Turfgrass	Ants, Including Imported Fire Ants and Harvester Ants	<p>Mound Treatment-Dry Method: Evenly distribute 1 to 2 teaspoons over the mound.</p> <p>Drench Method: Mix 1 oz. in 5 gals. of water. 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.</p>	<p>For best results apply the material in the early morning or late afternoon when the ants are most active.</p> <p>Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.</p>	<p>Apply the specified amount of ORTHENE 75 S Soluble Powder as directed.</p> <p>Grass in treated areas may be injured.</p> <p>Do not treat mound more than once per season.</p>

OUTDOOR AND PERIMETER SPRAY

Location	Insects	Amount ORTHENE 75 S Per Gallon	Time of Application	Recommended Application
Outdoor and perimeter area.	Wasp	1.6 oz. (0.10 lbs.)	Treat early or late in the day, as wasp are generally less active during these times.	Apply specified amount of ORTHENE 75 S Soluble Powder per each gallon of water used. Apply as a spot treatment to the nest, nest entrance, and surrounding areas where the wasps alight.
	Ants, Including Imported Fire Ants and Harvester Ants Crickets Cockroaches Earwigs Pillbugs	1.6 oz. (0.10 lbs.)	As the insects appear.	Apply specified amount of ORTHENE 75 S Soluble Powder per each gallon of water used. Apply to a band of soil 6 to 10 feet adjacent to the structure and to a height of 2 to 3 feet on the foundation where pests may be active or may find entrance. Also apply as a residual spray or with a paint brush to surfaces of buildings, window frames, shutters, entryways, screens, eaves, patios, garages, carports, around garage areas and other areas where these pests congregate.

OUTDOOR FLORAL CROPS AND GROUND COVERS

Plants	Insects	Amount ORTHENE 75 S Per 100 Gals.	Time of Application	Recommended Application
Chrysanthemums Daisies Dahlias Easter Lily Gladiol Gypsophila Pachysandra Pansy Peony Roses Sedum, Statice Strawflower Yarrow Zinnia	Aphids Thrips Lygus	2/3 lb. (10.5 oz.)	As insects begin to appear. Repeat applications may be necessary.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 100 gals. water with a hydraulic sprayer as a full coverage spray. Multiple applications may cause slight tip burn or marginal leaf necrosis on some varieties. Test on a few plants to determine varietal susceptibility.
Roses Boston Ivy	Japanese Beetle	1 - 1/3 lbs. (21.3 oz.)	As the Japanese Beetles begin to appear. Repeat applications at 2 week intervals may be necessary.	

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GREENHOUSE FLORAL AND FOLIAGE PLANT CROPS

Plant	Insects	Amount ORTHENE 75 S Per 100 Gals.	Time of Application	Recommended Application
Roses	Leafrollers	2/3 to 1 lb. (10.5 to 16 oz.)	As leafrollers begin to appear. Use the higher amount when the large larvae are present.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 100 gals. water with a hydraulic sprayer as a full coverage spray.
Foliage Plants, Anthuriums, Cacti, Orchids, Poinsettia	Aphids	1/3 lb. (5.3 oz.)	As aphids begin to appear.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 100 gals. water with a hydraulic sprayer as a full coverage spray. The addition of a wetting agent may be required on difficult to wet foliage.
	Mealybugs Thrips Whiteflies	2/3 lb. (10.5 oz.)	As the insects begin to appear. A repeat application, at a 2 week interval, may be necessary for control of mealybugs and whiteflies.	Caution: Phytotoxicity has occurred on the following foliage plants: <i>Blechnum gibbum</i> , <i>Cissus antarctica</i> , <i>Ficus triangularis</i> , <i>Fittonia verschaaffelti</i> , <i>Maranta leuconeura kerchoveana</i> , <i>Pachystachya lutea</i> , <i>Plectranthus australis</i> , <i>Polypodium aureus</i> , <i>Polystichum</i> , <i>Pteris ensiformis</i> , <i>Tolmiea menziesii</i> . Before treating large plantings spray only a few plants and observe two weeks for varietal phytotoxicity. Application of ORTHENE 75 S Soluble Powder on Poinsettias after bract formation may result in phytotoxicity on certain varieties.
	Scales (Crawlers)	2/3 lb. (10.5 oz.)	As crawlers begin to appear. Repeat applications, at a 2 week or more interval, may be necessary where there is continuous crawler production.	
	Sweet Potato Whiteflies (Except CA)	1/3 lb. (5.3 oz.) plus TAME 2.4 EC Spray 10 2/3 fl. oz. (0.2 lb. ai)	Apply when insects first appear. If a population is well established, make one application of the tank mix and follow 5 to 7 days later with TAME alone at 16 fl. oz./100 gals. See TAME label for instructions.	For sweet potato whitefly control, apply the specified amount of ORTHENE 75 S Soluble Powder plus TAME 2.4 EC Spray as a tank mix at a volume necessary to obtain good coverage. Follow the TAME label for specific instructions on the alternation of TAME plus ORTHENE and TAME alone and the rotation instructions to avoid potential resistance.

GREENHOUSE FLORAL AND FOLIAGE PLANT CROPS (Continued)

PLANTS	INSECTS	Amount ORTHENE 75 S Per 100 Gals.	TIME OF APPLICATION	RECOMMENDED APPLICATION
Roses Carnations Chrysanthemums	Aphids Thrips	2/3 lb. (10.5 oz.)	As aphids begin to appear. As thrips begin to appear or at the tight flower bud stage. Repeat applications may be necessary.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 100 gals. water with a hydraulic sprayer as a full coverage spray. Do not apply more often than once every 28 days to Carnations and Chrysanthemums. Caution: Phytotoxicity has occurred on the following Chrysanthemum varieties: Albatross, Bonnie Jean, Dixie, Garland, Gem, Iceberg, Pride, Showoff, Statesman, Tally Ho, Westward Ho, and Wild Honey. Before treating large Chrysanthemum plantings, spray only a few plants and observe two weeks for varietal phytotoxicity. Do not apply to Chrysanthemums and Roses with open flowers.

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 fluffy nature this material is inclined to settle.

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, or Chemtrec 1-800-424-9300.

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

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.

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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- ASANA® — Reg. TM of E. I. duPont de Nemours & Co., Inc. for esfenvalerate insecticide.
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