VEGETABLE CROPS

Crops	Insects	Amount ORTHENE 75 W8P Per Acre	Further Use Instructions	Days to Harvest
Beens and Lime Beens (Dry and Succulent	Fleahoppers Grasshoppers	1/3 to 2/3 lb. (5.25 to 10.5 oz.)	Apply in water at a minimum of 2 gals. spray per acre by air or 20 to 100 gals. spray per acre by ground.	14 (snapbeans or dry beans) 0 (lime beans -
Forms)	Aphids (excluding black been aphid) Been leaf beste Been Leafroiler Cabbage Looper Cutworme Green Cloverworm Leafhoppers Mexican been beste Plantbugs (Lygus) Soybeen Looper Thrips Whitefty	2/3 to 1 1/3 lbs. (10.5 to 21.25 cz.)	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.	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.	14
			Repeat application as needed. Do not apply more than 8 lbs. per acre per season to Brussels Sprouts.	
	Cabbage Looper Diamondback moth larvae Imported cabbage worm	1 1/3 ibs. (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 cz.)	Apply in water at 50 to 100 gals, spray per acre by ground or in a minimum of 5 gals, per acre by air.	21
	Fell armyworms Cabbage Looper	1 1/3 lbs. (21.25 oz.)	Apply when eggs or insects appear and repeat at 3 to 10 day intervals as necessary to maintain control. Trim plants (tops removed) before shipment for use.	
			Do not use trimmed (tops) for food of ' feed.	

VEGETABLES CROPS (Continued)

		VEGETABLES C		
Crops	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions	Days to Harvest
Head Lettuce (Crisphead Type Only)	Aster Leafhopper Green peach aphid	2/3 to 1 1/3 lbs. (10.5 to 21.25 oz.)	Apply in water at 5 to 10 gals, spray per acre by air or 10 to 60 gals, spray per acre (broadcast) by ground. Apply as necessary to maintain desired control. Do not apply more than 6-2/3 lbs. per acre per season. Do not apply efter first head begins to	Spring summer and early fall crope in all eress and winter crops in Florida and Texas, late fall crops in
	Cabbage Looper Armyworms (excluding Beet Armyworm)	1 1/3 lbs. (21.25 cz.)	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.	Arizona and California.
Peppers (non- bell type)	Aphids	2/3 lb. (10.5 cz.)	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 eir or 25 to 150 gals, spray per acre by ground.	7
(com ripe)	Cabbage Looper Green peach aphid Tobacco Hornworm	2/3 to 1 1/3 lbs. (10.5 to 21.25 oz.)	Apply when eggs or insects appear. Repeat as necessary until insects have been reduced below economic numbers.	
	European corn Borer	1 to 1 1/3 lbs. (16 to 21.25 oz.)	,	

PASTURE, RANGELAND, WASTELAND

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

NON-BEARING CITRUS

Plants	Insects	Amount ORTHENE 758 per Acre	Time of Application	Recommended Application
Non-bearing Citrus (including citrus nursery seedlings) * (Except CA)	Aphids Grasshoppers Katydid Meelybugs Orangedogs Plent Bugs Thrips Whiteflies Citrus Blackfly*	2/3 lb. (10.5 az.) 2/3 to 1 1/3 lb. (10.5 to 21.25 az)	Apply as needed for control of existing populations. The high rate should be used when a heavy infestation of citrus blackfly is present.	Apply ORTHENE 75S in 100 to 200 gellons of water per acre. Spray individual juvenile or non-bearing trees for coverage with total application not to exceed specified rate in ibs. per acre. Length of residual activity will depend upon spray coverage and the amount of moisture following application.
			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 ereas. DO NOT HARVEST citrus for one year
	Ants, Including Imported Fire Ants and Harvester Ants*	Foliar Spray 1.0 lbs. (16 oz.)	Apply as needed for control of existing populations.	after treatment. For mound drench treatment, apply 1 gal. of mix to each mound area by sprinkling the mound until it is wet and
		Mound Treatment Drench Method: Mix 1 oz. in 5 gals. of water.		treet a four (4) foot diameter circle around the mound.

SPECIALTY USES NON CROP AREAS

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Сгор	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions
Non-Crop Areas (field borders, fencerows, roadsides, ditchbanks and borrow pits)	Grasshoppers	1/3 lb. (5.25 cz.)	For early to mid-season application to grasshoppers in field borders, fencerows, roadsides, ditchbanks, and borrow pits. Apply in 1 to 5 gals. of water by air, or in 10 to 20 gals. of water with ground equipment. Use the higher volumes when spraying heavier foliage. Do not graze or feed vegetation cut from treated areas.

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

STORAGE AND DISPOSAL

PROHIBITIONS

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

STORAGE

Keep pesticide in original container.

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

Store in cool, kily 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

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

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

2. Critical and unforeseeable factors beyond Valent's control prevent it from a minating 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, lock 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 (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.

Copyright® 1994 by Valent U.S.A. Corporation.

AMBUSHO — Reg. TM of Zeneca Inc. Ag Products for permethrin insecticide. AMMO - Reg. TM of FMC Agri Chemical Group for cypermethrin insecticide. ASANA® — Reg. TM of E. I. duPont de Nemours & Co., Inc. for esfenvalerate insecticide. BAYTHROID® — Reg. TM of Miles Inc. for cyfluthrin synthetic pyrethroid.

CAPTURE® — Reg. TM of FMC Agri Chemical Group for biferithrin insecticide miticide. CYMBUSH® — Reg. TM of Zeneca Inc. Ag Products for cypermethrin insecticide. KARATE® — Reg. TM of Zeneca Ag Products U.K. for lambdacyhalothrin insecticide. LORSBAN® — Reg TM of Dow Chemical Company for chlorpyrifos insecticide. ORTHENE® — Reg. TM of Monsanto Company for acephate insecticide. POUNCE - Reg. TM of FMC Agri Chemical Group for permethrin insecticide. PYDRINO - Reg. TM of E. I. duPont de Nemours & Co., Inc. for fenvalerate insecticide. SCOUT® — Reg. TM of Hoechst-Roussel Agri-Vet Co, for tralomethrin pyrethroid insecticide.

Manufactured for Valent U.S.A. Corporatio. Walnut Creek, CA 94596-8025 FormR01550A*.0940524 Made in U.S.A. EPA Reg. No. 55639-10 EPA Est. No. 39578-TX-01



INDIVIDUAL UNIT PACKAGE LABEL

ORTHENE • 75 WSP
CONTAINS ACEPHATE
CAUTION

KELP OUT OF REACH OF CHILDREN EPA REGISTRATION NO. 59639-xx

REFER TO OUTER CONTAINER LABEL FOR USE DIRECTIONS AND PRECAUTIONS



U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Posticide Program Registration Division (H7505C) 401 "M" St., S.W.

Washington, D.C. 20460

59639~89

EPA Rog. Number:

Term of Issuence:

Date of Jeannese

Conditional

JUL 22 1994

NOTICE OF PESTICIDE:

<u>x</u> Registration Reregistration

(under FIFRA, as assended)

Name of Posticide Product:

Orthene 75 WSP (Insecticide in a Water Soluble Bag)

Valent U.S.A. Corporation Reg # 59639-89 PM-14

1333 N. California Blvd., Suite 600

P. O. Box 8025

Walnut Creek, CA 94596-8025

Nate: Change is labeling differing in animance from that accepted in connecting with the against the animal to and accepted by the Registrating Division prior to the of the label in connectes. In any correspondence on this product aboves the labeling IFA against an analysis

On the basis of information furnished by the registrant, the above named penticide is hereby registered/reregistered under the Federal Insecticide, Pungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the covironment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

- Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
- 2. Make the following label changes before you release the product for shipment:
 - a. Add the phrase, "EPA Registration No. 59639-89".
 - b. 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 you have cited as substantially similar.
 - c. In the directions for use on cotton as an in-furrow spray, correct the maximum application rate under the "Further Use Directions" from "1 1/3 lbs. active Orthene 75 WSP" to "1 1/3 lbs. Orthene 75 WSP".

Signature of Approving Official:		Date:	_

FPA Form 1570-6



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page 2 EPA Reg. No. 59639-89

- d. Correct the grazing and feeding prohibition under Pasture, Rangeland, and Wasteland from "Do not graze or feed grass hay to dairy animals" to read"Do not graze or feed grass or grass hay to dairy animals"
- f. In the box entitled "Non-Agricultural Use Requirements", delete the reference to golf course areas. The reference implies use on golf courses but the label does not include directions for use on such areas.
- 3. Submit two copies of the revised final printed label for the record.

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

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)



ACCEPTED
with COMMENTS
in EPA Letter Dated

JUL 22 1994

Under the Federal Insecticide, Pungicide, and Rodenticide Aut Pungicide, and for the particide as amended, for the particide registered under EPA Reg. No. 79639-89

ORTHENE® 75 WSP

(Insecticide in a Water Soluble Bag)

Active Ingredient									В	y Wt.
* Acephate (O,S-Dimethyl acetylphosphoramidothioate)		 	 		 		 	 		75%
Inert Ingredient	 	 	 		 ٠.		 	 		25%
* ORTHENE®, Acephate										
U.S. Pat. No. 3,914,417										

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

NET WEIGHT 5 POUNDS (5 - 1 lb. Packets)

4918

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 The EATMENT: 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 corract 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:

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- 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 erers. Do not apply directly to water, or to areas where surface water is present or to intertidal crazz below the mean high water mark. Cover or coil-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 beer 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

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

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

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

Table of Equivalents

Amount of ORTHENE 75 WSP	1 1/3 lbs.	1 lb.	2/3 lb.	A 27.	? nz.
Amount Active Contained	1 lb.	3/4 lb.	1/2 lb.	1/5 ib.	1/10 ·b.



COTTON

Crop	Insects	Amount ORTHENE 75 WSP 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
	Plentbugs (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 egge or insects first appear. Repeat as necessary to maintain control.	
	Fleehopper	1/3 lb. (5.25 cz.)	Do not feed gin trash to livestock or allow animals to graze on treated areas.	
	Cotton Aphid' (excluding CA, Až)	2/3 to 1 1/3 lbs. (10.5 to 21.25 cz.)	Lygue - Use higher rate for Lygue adults that have migrated into cotton.	
	Whitefly		"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	
	Sweetpotato Whitefly (Silverleaf whitefly)	2/3 lb. (10.5 cz. + 'DANITOL® 10 2/3 lo 16 fl. cz.	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 Best Armyworm) Cabbage Looper	1 1/3 lbs. (21.25 oz.)	Boltworm and Tobacco Budyrorm - Early season light infectation use 2/3 lb, per acre. Mid and late seraon moderate to severe infectations use 1 to 1 1/3 lbs. per acre. Apply when eggs appear and repeat at 3 to 7 day spray interval.	
	D.W.	2/24-14-0-0-	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	
	Boltworm Tobacco Budworm Adults	2/3 to 1 1/3 lbs. (10.5 to 21.25 oz.) (East of Rockies) 1 1/3 lbs. (CA, AZ)	in the evenings during periods of peak activity. Eggs: When spray particles come in	
	Eggs/ DEADHATCH®	(21.25 oz.)	direct contact with eggs, hatching larvae may be controlled as they consume and emerge from their egg casing.	
	Stinkbugs	1 16.	*Cutworms - Control measures are most effective when ground applications are made in the evenings and the spray is directed	
: :	Cutworms*	(16 oz.)	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 serial application be necessary, apply in water at 3 to 10 gals, spray per acre (minimum; j 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 Boltworm - Apply when insucts appear and repeat at a 5 to 7 day spray interval.	; . , ; .

COTTON TANK MIXES

С:сър	Insects	Amount ORTHENE 75 WSP + LORSBAN9 4E Per Acre	Further Use Instructions	Days to Harvest
Collon	Armyworme (escluding Beet Armyworm) Bollworm Cabbage Looper Cotton Aphid Cutworms Fleshopper Grasshoppers Pink Bollworm Plant Bugs (Lygus, Mirids) Salt Mersh Caterpiller Thrips Tobacco Budworm Whitefly (Excluding Sweetpotato Whitefly)	1/3 to 1-1/3 ibs. (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. *Cutwerme - Use ORTHENE at 1 it. , 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 an effective in controlling cutworms. However, should aerial application be necessary, apply in water at 3 to 10 gals. spray per acre (minimum 5 gals. per acre in CA). Apply when insects first appear or damage is first noted and repeat to maintain control.	21

COTTON TANK MIXES (Continued)

		COTTON TANK MIXE		<u> </u>	
		Amount ORTHENE 75 WSP (lb.)	Pyrethroid		Days To
	,	*	Maximum		Harvest
0		** Synthetic Pyrethroid (fl.oz.)	lbs. Active	Further Use	For Each
Crop	Ineects	Per Acre	Per Acre	instructions	Combination
Cotton	Ballwarm	ORTHENE 75 WSP		Begin applications	
	Tobacco	1 1/3 lb. to 2 acres up to		when eggs or insects	
	Budworm	1 1/3 lb. to 1 acre		appear and apply as	
	Cabbage	PYDRIN® 2.4 EC. 5.3 - 10.67	2.0	needed to maintain	21
	Looper	a		control	
	Plant bugs	ASANA® 1.9 EC, 1.4 - 3.4°	0.5	Apply in 3 to 5 gals.	21
	Thrips	ar		of water with serial	•
	Fleehoppers	ASANA® XI., 3.9 - 9.6°	0.5	equipment or in 10 to	21
	Pink	or or		25 gale, of water with	• '
	Bollwurm	CAPTURE® 2 EC. 1.3 - 6.4	0.5	ground equipment	21
	(CA, AZ)	ar		Do not feed gin tresh	
	Aphids	BAYTHROID® 2 EC, 1.6 - 3.2	0.89	to livestock or allow	21
	Whitefly	or		animals to graze on	
	Cotton Leaf	KARATE® 1 E. 3.2 - 5.12	0.2	treated areas.	21
	Perforator	(Except CA) or		Stinkbugs and	
	Felf Armyworm	AMBUSH9 2 EC, 6.4 - 12.8	3.0	Cutworms:	21
	Cutworms	l or		Use ORTHENE 75	
	Stinkbugs	POUNCE® 3.2 EC, 2 - 8*	3.0	WSP at 1 lb. to 1	21
	Sweet Potato	or		acre.	
	Whitefly	AMMO+ 2.5 EC, 2 - 5*	1.0	*Cutworms - Control	21
		or		messures are most	
		CYMBUSH# 3 EC, 1,7 - 2.56*	1.0	effective when	21
		or		ground applications	i
		SCOUT® 0.3 EC, 6.4 - 8	0.19	are made in the	28
		(Except CA) or	0.19	evenings and the	l I
,		SCOUT® X-TRA, 2.13 - 3.33	Ų. 1 9	spray is directed toward the lower	28
		(Except CA)	}	portion and base of	
				the plant. Apply in	
				water at 10 to 25	1
		i		gals, spray per acre	
		Ì	1	by ground. Aerial	
		1		applications are not	
				as effective in	[
	ľ	l		controlling cutworms.	[
				However, should	
		l		arrial application be	
				necessary, apply in	
				water at 3 to 10 gals.	i
	1	}	1	spray per acre	,
:				(minimum 5 gals. pr .	
		1		ecre in CA). Apply	1
			Į	when insects first	1
		[f	appear or damage is	
				first noted and repeat	
				to maintain control.	
	1]	All applicable	
	}	1	ł	directions, restrictions and precautions on	l
				end precautions on the EPA registe.∈≾	
				labels are to be	1
		l		followed.	
Ше		I ight insect infestations.			

Use low rate only for light insect infestations.

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

COTTON IN-FURROW APPLICATION

Сгор	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use instructions
Collon	Aphids Thrips Black (Greeny) Culturarm (Except CA)	2/3 to 1 1/3 lbe. (10.5 to 21.25)	Refer to the ORTHENE 75 WSP conversion chart before melting product application. ORTHENE 75 WSP CONVERSION CHART LBS. A.I. TO OZ. FORMULATED PRODUCT 0.5 10.7 0.6 12.8 0.7 14.9 0.8 17.0 0.9 19.2 1.0 21.3 Apply % to 1 % lb. active ORTHENE 75 WSP in 3 to 5 gr.s. of water per acre as an in-furrow spray. NOTE: For the Blinchlands of Texas use only the 1.0 lb. active ORTHENE 75 WSP rate (21.3 oz. formulated product per acre.) ORTHENE 75 WSP can be mixed with fungicides that are sprayed in-furrow for disease control. Flat-fen nozzles used for in-furrow application should be set so that the fanned spray pettern is aligned with the row to insure good spray deposition in the seed furrow. Cone type nozzles may not provide a spray pettern 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 opener and should be checked frequently to insure that the tubing is properly positioned to deposit spray solution into the seed furrow.

FIELD CROPS

Crops	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions	Days to Harvest
Peppermint Spearmint	Alfelfa Looper Cutworms Aphids	1 1/3 libs. (21.25 cc.)	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.	14
			Do not use spent mint hey for feed for dairy animals.	
Peenuts	Grasshoppers	1/3 to 2/3 lb. (5.25 to 10.5 cz.)	Apply in water at 10 to 50 gals, spray per acre by ground or in 5 to 10 gals, spray per acre by air.	14 (of digging)
	Thrips	2/3 to 1 lb. (10.5 to 16 oz.)	Begin applications when insects first appear and repeat as needed to maintain control.	
	Corn Earworm Fall armyworm Leefhoppers Loopers Velvetbeen caterpilar	1 to 1 1/3 lbs. (16 to 21.25 oz.)	Do not feed treated forage or hay to livestock or allow animals to graze treated areas.	

TOBACCO TOBACCO TRANSPLANT WATER APPLICATION (EXCEPT CA)

Сгор	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions
Tobacco	Flea Bestle Green Peach Aphid Tobacco Aphid Cutworms Tobacco Thrips	1 lb. (16 cz.)	Provides control of early season flee bestles, green peach aphide, tobacco aphide, and culworms for approximately 3 to 4 weeks after transplanting. For later season control of these insects, apply a foliar spray of ORTHENE 75 WSP. Apply in a minimum of 100 gals, of transplant water per acre. Do not apply more than 1 lb. ORTHENE 75 WSP per acre as a transplant water application as some

TOBACCO FOLIAR APPLICATION (EXCEPT CA)

Crop	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions	Days to Harvest
Tobacco (Flue-Cured,	Gresshoppers	1/3 to 2/3 lb. (5.25 to 10.5 cz.)	Apply in 10 to 50 gals, water per acre with ground equipment or a	3
Air Cured, Dark Fire Cured)	Green Peach Aphid Flee Beatle Horrworm Tobacco Thrips	2/3 lb. (10.5 oz.)	Apply on a 7 day schedule or as needed.	
	Tobacco Aphid Vegetable Weevils Stinkbugs	2/3 to 1 lb. (10.5 to 16 oz.)	Do not 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 WSP Per Acre	Further Use Instructions
Tobacco Bed Treatment	Flee Bestle Green Peach Aphid Tobacco Aphid Cutworm	1 lb. (16 cz.)	Apply to follage at the equivalent of % oz. per gel; of water per every 1,000 sq. ft. of bed. Apply evenly to insure thorough coverage.

TOBACCO GREENHOUSE APPLICATION (EXCEPT CA)

Crop	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions
Tobacco	Culworm Flee Beetle Green Peach Aphid Tobacco Aphid	1 lb. (16 oz.)	Apply to foliage at the equivalent of 1/5 cz. in 3 gals. water per every 1,000 sq. ft. of bed. Apply evenly to insure thorough coverage. Note: Floatbed water should be disposed of in the transplanted field through the transplant water or through foliar spray.

TOBACCO SOIL APPLICATION (EXCEPT CA)

Crop	Insects	Amount ORTHENE 75 WSP	Further Use Instructions	Days to Harvest
Tobacco	Ants, Including Imported Fire Ants and Harvester Ants	Mound Treatment- Drench Method: Mix at equivalent of 1 oz. in 5 gals. of water. (1 lb. per 80 gals.) Apply 1 gal. of mix to each mound area by sprinkling the mound 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

Сгор	Insects	Amount ORTHENE 75 WSP Per Acre	Further Use Instructions	Days to Harvest
Cranberries	Cranberry Blossom Worm Gypsy Moth Felse Armyworm Fireworms Sperworms Spergenothis	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:

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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 devises 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.





