

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 °M" St., S.W.

Washington, D.C. 20460

59639-86

EPA Rog. Number:

Date of Issuance:

Term of Issuace: Conditional

NOTICE OF PESTICIDE:

<u>x</u> Registration ____ Reregistration

Name of Pesticide Product:

Orthene 90 WSP

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Valent U.S.A. Corporation 1333 N California Blvd., Suite 660 Walnut Creek, CA 94596

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5463032

Note: Changes in intelling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA regulation number.

On the basis of information furnished by the registrant, the above named posticide is hereby registered/reregistered under the Federal Insecticide, Fungicide 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 environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a posticide 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.
- Make the following label changes before you release the product for shipment:
 - a. Add the phrase, "EPA Registration No. 59639-86".
 - b. Delete the separate personal protective equipment(PPE) statements for mixers and loaders. They are identical to the PPE statements for applicators and other handlers and do not need to be restated as separate mixer/loader PPE.
 - c. On your individual unit package labeling, revise the statement, "Refer to outer container label for use directions" to read as follows: "Refer to outer container label for use directions and precautions."

Signature of Approving Official

Date:

APR 1 9 1994

EPA Form 8570-6

EPA Reg. No. 59639-86

3. Submit two copies of the revised final printed label before you release the product for shipment.

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.

It should be noted for the record that the active ingredient in this product does not qualify for the formulator's exemption and that your Formulator's Exemption Statement submitted for the subject product was not considered in our evaluation of the subject product. Your submitted "Certification With Respect to Citation of Data" form citing the cite-all method of support submitted in conjunction with your citation of a registered similar product is considered sufficient to satisfy the requirements and procedures of 40 CFR Part 152 subpart E.

Sincerely yours,

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

ORTHENE® 90 WSP

11/10

(Insecticide in a Water Soluble Bag)

Active Ingredient By Wt

*Acephate (O, S-Dimethyl acetylphosphoramidothioate) 90%

Inert Ingredients 10%

*ORTHENE®, Acephate U.S. Pat. No. 3,914,417

*CEPTED with COMMENTS in EPA Letter Dated

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE SIDE PANEL FOR ADDITIONAL

PRECAUTIONARY STATEMENTS

By Wt

*Accepted by Wt

*Accepted with Comments in EPA Letter Dated

*APR 1 9 1904

Under the Federal Investicide, Fungicide, and Redenticide Act as samended, for the posticide registered under EPA Reg, No. 576.37 – 866

Formulation for Eggs/DEADHATCH •

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THIS PRODUCT MAY NOT BE REFORMULATED, REPACKAGED OR RELABELED.

BAG NET WEIGHT 5 POUNDS
CARTON NET WEIGHT 10 POUNDS

Manufactured for Valent U.S.A. Corporation Walnut Creek CA 94596–8025 Made in U.S.A. Form R003A 10/11/93 EPA Reg. No. 59639– EPA EST. No. 39578-TX-01

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.

STATEMENT OF PRACTICAL TREATMENT: Acephate is an organophosphate, cholinesterase inhibitor.

If swallowed:

Drink 1 or 2 glasses of water (or mlik) 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:

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Wash skin with plenty of soap and water.

If inhaled: Note to Physicians: Remove person from exposure area. 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, waterproof gloves, 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, 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 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.

DIRECTIONS:

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This package contains two water soluble packets of ORTHENE 90 WSP. Do not handle the packets with wet gloves or allow the packets to become wet prior to addition to the spray tank. If only one packet is used, close and reseal outer container to protect remaining packet.

To prepare spray solution, drop the unopened packet of ORTHENE 90 WSP into a spray tank containing at least one-half the desired total quantity of water. Continue to add water with the agitator running until the desired spray volume is reached. Depending on the water temperature and degree of agitation the packet should completely dissolve in approximately 5 minutes.

Do not apply this product through any type of irrigation system.

COTTON

Crop	inescts	Amount® ORTHENE 90 WSP Per Acre	Acres Per Ib. ORTHENE 90 WSP	Further Use Instructions**	Days To Hervest
Cotton	Thrips	3.2 oz.	1 fb. to 5 acres	Apply in water at 1 to 3 gals. (AZ 3 to 5 gals.) spray per acre by air.	21
	Plant bugs (Lygus)	0.25 to 1 lb.	1 fb. to 4 acres up to 1 lb. to 1 acre	Gallonage should be increased as plant size increases to insure thorough coverage. (In CA apply a minimum of 5 gals, per acre by air).	
		CA, AZ ONLY 0.5 to 1 lb.	CA, AZ ONLY 1 lb. to 2 acres up to 1 lb. to 1 acre	Apply 10 to 25 gals, spray per acre by ground. Apply when eggs or insects first appear. Repeat as necessary to maintain control.	
	Fleahopper	0.25 lb.	1 lb. to 4 acres	Lygus – Use higher rates for lygus adults that have migrated into cotton.	
	Cotton Aphid Whitefly	0.5 to 1 lb.	1 lb. to 2 acres up to 1 lb. to 1 acre	Apply in water at 3 to 10 gals. spray per acre by air (minimum 5 gals, per acre in CA, AZ) or 10 to 25 gals, spray per acre by	
	Armyworms (excluding Beet Armyworm) Cabbage Looper	1 lb.	1 lb. to 1 acre	ground. Apply when eggs or Insects first appear, Repeat as necessary to maintain control.	
	Bollworm Tobacco Budworm Larvae Adults	E. OF ROCKIES 0.5 to 1 lb. CA, AZ ONLY 1 lb.	E. OF ROCKIES 1 lb. to 2 acres up to 1 lb. to 1 acre CA, AZ ONLY 1 lb. to 1 acre	Apply in water at 3 to 10 gals, spray per acre by air (minimum 5 gals, per acre in CA, AZ) or 10 to 25 gals, spray per acre by ground. Bollworm – Budworm Larvae: Early season light infestation use 1 lb, to 2 acres. Mid and late season moderate to severe infestations use 1 lb, to 1 acre. Apply when eggs appear and repeat at a 3 to 7 day interval. Bollworm–Budworm Adults: 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 paak activity.	

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Crop	Intects	Amount* ORTHENE 90 WSP Per Acre	Acres Per lb. ORITHENE 90 WSP	Further Use Instructions**	Days To Hervest
Cotton	Eg:3*/ DEADHATCH*	0.25 to 0.5 tb.	1 lb. to 4 acres up to 1 lb. to 2 acres	Bollworm - Budworm Eggs: When spray particles come in direct contact with eggs, hatching larvae may be controlled as they consume and emerge from their egg casing. For DEADHATCH (contact ovicidal activity) and larval control, apply ORTHENE 90 WSP in combination with insecticides (including synthetic pyrethroids in the following label section) registered for use on cotton at their recommended larvicidal label rates.	21
	Pink Bollworm (CA, AZ)	1 lb.	1 lb. to 1 acre	Pink Bollworm - Apply when insects appear and repeat at a 5 to 7 day interval.	:
	Stinkbugs Cutworms	0.8 lb.	1 tb. to 1.25 acres	Cubworms - 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, AZ). Apply when insects first appear or damage is first noted and repeat as necessary to maintain control.	

*Where a rate range is given, use the higher rate where heavy insect pressure exists.
** Do not feed gin trash to livestock or allow animals to graze on treated areas.

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COTTON TANK MIXES

Сгор	ineects	Amount ORTHENE 90 WSP + LORSBAN® 4E Per Acre	Further Use Instructions		Days to Hervest
Cotton (CA, AZ)	Armyworms Bollworm Cabbage Looper Cotton Aphid Cutworms Fleahopper Grasshoppers Pink Bollworm Plant Bugs (Lygus, Mirids) Salt Marsh Caterpillar Thrips Tobacco Budworm Whitefly	4.44 oz. to 17.77 oz. + 1 to 2 pts.	Do not feed gin trash or treated forage to livestock. Do not allow livestock to graze on treated areas.	; ;	21

COTTON TANK MIXES (continued)

Crop	inaects	Amount ORTHENE 90 WSP (cz.) + ** Synthetic Pyrethroid (fl. cz.) Per Acre	Pyrethroid Maximum Ibs. Active Per Acre	Further Use Instructions	Days To Hervest For Each Combination
Cotton	Bollworm	ORTHENE 90 WSP		Begin applications	
j	Tobacco	1 lb. to 2 acres up to		when eggs or	
	Budworm	1 lb. to 1 acre		insects appear and	
	Cabbage	PYDRIN® 2.4 EC, 5.3 - 10.67	2.0	apply as needed to	21
	Looper	or		maintain control.	
	Plant bugs	ASANA® 1.9 EC, 1.4 - 3.4*	0.5	Apply in 3 to 5 gals.	21
	Thrips	or		of water with serial	
	Fleshoppers	ASANA® XL, 3.9 - 9.6°	0.5	equipment or in 10	21
i	Pink	or		to 25 gals, of water	
	Bollworm	CAPTURE® 2 EC, 1.3 - 6.4	0.5	with ground_	21
	(CA, AZ)	or		equipment, Do not	
İ	Aphids	BAYTHROID® 2 EC, 1.6 - 3.2	0.89	feed gin trash to	21
	Whitefly	or		livestock or allow	
ľ	Cotton Leaf	KARATE® 1 E, 3.2 - 5.12	0.2	animals to graze on	21
	Perforator	(Except CA) or		treated areas.	
	Fall Armyworm	AMBUSH® 2 EC, 6.4 - 12.8	3.0	Stinkbugs and Cutworms:	21
	Cutworms	or POUNCE® 3.2 EC, 2 - 8*	3.0	Use ORTHENE 90	21
	Stinkbugs Sweet Potato	POUNCE 3.2 EC, 2-8"	3.0	WSP at 1 lb. to 1.25	2'
ļ	Whitefly	AMMO* 2.5 EC, 2 - 5*	1.0	acres. All applicable	21
ŧ	TALLICOLD	AMIMO- 2.3 EC, 2 · 3	1.0	directions.	2 '
H	ţ	CYMBUSH® 3 EC. 1.7 - 2.56*	1.0	restrictions and	21
1		or	!	precautions on the	•
		SCOUT® 0.3 EC. 6.4 - 8	0.19	EPA registered	28
		(Except CA) or		labels are to be]
		SCOUT® X-TRA, 2.13 - 3.33	0.19	followed.	28
	}	(Except CA)]]

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COTTON IN-FURROW APPLICATION

Crop	insects	Amounts ORTHENE 90 WSP Per Acre	Acres Per lb. ORTHENE 90 WSP		Further Use Instruc	tions
Th Bla (G	phids brips lack Greasy) Cutworm	0.56 to 1.1 lbs. (.5 to 1 lb. active)	1 lb. to 1.8 up to 1 lb. to .9 acres	making produ- ORT LB. ACTIVE 0.5 0.6 0.75 0.9 1.0 Apply 0.56 to of water per of water per of water per of the control o	ORTHENE 90 WSP convert application. HENE 90 WSP CONVER LBS, ORTHENE 90WSP 0.56 0.67 0.83 1.0 1.1 1.1 lbs. ORTHENE 90 Verce as an in-furrow spea Blacklands of Tenas a WSP rate (17.6 oz.). WSP can be mixed with provide a spray pattern is aligned with a leposition in the seed funct provide a spray pattery deposition in the seed function provide a spray pattery deposition in the seed function of spray systems that amplifying securely fastene hould be checked field properly positions discovered for the seed functions.	SION CHART OZ. ORTHENE 90WSF 9.0 10.7 13.3 16.0 17.6 VSP in 3 to 5 gals. rey. see only the 1.1 lbs. in fungicides that are oil. Flat-fan nozzles d be set so that the the row .5 is.3.2 rrow. Cone type tern that is s.3.2. rd flarrow, and shoul floy metal or plastic into the seed jurrow d to the % row ently to shule, that

Do not apply under conditions involving possible drift to food, forage or other plentings that might be dentaged or the crops thereof rendered unlit 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.

^{*} 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.

STORAGE AND DISPOSAL

PROHIBITIONS

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

Open dumping is prohibited.

STORAGE

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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 bag into application equipment. Do not reuse container. Dispose of empty bag 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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AMBUSH® - Reg. TM of ICI Agricultural 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 Mobay Corp. for cyfluthrin synthetic pyrethroid.

CAPTURE® - Reg. TM of FMC Agri Chemical Group for bifenthrin insecticide miticide.

CYMBUSH[®] — Reg. TM of ICI Agricultural Products for cypermethrin insecticide.

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

LORSBAN® - Reg TM of Dow Chemical Company for chlorpyrilos insecticide.

ORTHENE® - Reg. TM of Chevron Chemical Company for acephate insecticide.

POUNCE® - Reg. TM of FMC Agri Chemical Group for permethrin insecticide.

PYDRIN[®] - Reg. TM of E. I. duPont de Nemours & Co., Inc. for fervalerate insecticide.

SCOUT® - Reg. TM of Hoechst-Roussel Agri-Vet Co. for tralomethrin pyrethrok: insecticide.

ORTHENE® 90 WSP

CONTAINS ACEPHATE

CAUTION

KEEP OUT OF REACH OF CHILDREN

EPA REGISTRATION NO. 59639-

REFER TO OUTER CONTAINER LABEL FOR USE DIRECTIONS

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELLING