Please read Instructions on reverse before completing form	Form Approved OMB No. 2070-0060. Approval expires 11-30-93
(A) SEPA United States Environment Office of Pesticide Pro Washington, D. Application of Application	ntal Protection Agency OPP Identifier Number Ograms (H7505C)
Se	ection I
Company/Product Number     59639-33-AA	2. EPA Product Manager 3. Proposed Classification  Robert A. Forrest  PM# None Restricted
4. Company/Product (Name)	
ORTHENE 90 S	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)
5 Name and Address of Applicant (Include ZIP Code)  Valent U.S.A. Corporation 1333 N California Blvd. Walnut Creek, CA 94596	(b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No. 59639-33-AA
Check if this is a new address	Product Name ORTHENE 90 S
Sec	tion I I
Amundment - Explain below	Final printed labels in response to Agency letter dated
Resubmission in response to Agency letter dated	"Me Too" Application.
Notification - Explain below.	Other - explain below.
Explanation: Use additional page(s) if necessary. (For section	n I and Section II.)
	ider the Environmental Hazards NGC SIGNATION the label.  LABEL NOT REVIEWED  PER PRINCIPLE 100-1
Secti	on III
Material This Product Will Be Packaged In:     Child-Resistant Packaging Unit Packaging	Water Soluble Packaging 2. Type of Container
Yes* Yes No	Yes Metal Plastic Glass Paper
* Certification must be Unit Package wgt container submitted,	If "Yes," No. per Package wgt, container Other (Specify)
Label Container      Label Container  4. Size(s) of	Retail Container  5. Location of Label Directions On Label On Labeling accompanying product
6. Manner In Which Label Is Affixed To Product Lithout Pape Stend	r glued Curier (
	tion IV
Centact Point (Complete items directly below for identification     Name	n of individual to be contacted, if necessary, to process this application.)  Title  Telephone No (Include Area Code,)
Mark Herbst	Registration Assistant (510) 256-2745
Certificatio I certify that the statements I have made on this form and all I acknowledge that any knowingly false or misleading stater both under applicable law	attachments thereto are true, accurate and complete.
Walthelt	Registration Assistant
4 Typed(Name  Mark Herbst	5 Daw June 18, 1993
CPA Form 8570-1 (Rev. 12-90) Previous aditions are obs	ofete. White - EPA File Copy (original) Yellow - Applicant copy

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# ORTHENE® 90 S (INSECTICIDE)

Active Ingredient

\*Acephate (O,S.Dimethyl acetylphosphoramidathioate)
Inert Ingredients

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

# CAUTION SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Formulation for Eggs/DEADHATCH®

THIS PRODUCT MAY NOT BE REFORMULATED, REPACKAGED OR RELABELED.

# **NET WEIGHT 20 POUNDS**

Manufactured for Valent U.S.A. Corporation © 1992 Walnut Creek CA 94596-8025 Made in U.S.A. R Form 256-J EPA Reg. No. 59639-33-AA

PER PRINCIPAL BLADEL NOT REVIEWED PER PRINCIPAL BLADEL DATE. 6/29/93

#### 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 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 Physicians: Emergency Information – call 1–800-892-0099. Acephate is a cholinesterase inhibitor. If signs of cholinesterase inhibition appear, atropine is antidotal. 2-PAM may also be used in conjunction with atropine but should not be used alone.

#### **WORKER SAFETY**

USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT DURING MIXING/LOADING, APPLICATION, REPAIR, AND CLEANING OF MIXING, LOADING, AND APPLICATION EQUIPMENT, DISPOSAL OF THE PESTICIDE, AND [areas for which a reentry interval has been established] EARY REENTRY INTO TREATED AREAS: chemical-resistant gloves, long sleeved shirt, long legged pants, shoes, and socks. If overhead exposure is likely, such as during flagging, wear a hood or wide brimmed hat. WORK SAFETY: Always wash hands, face, and arms with soap and water before smoking, eating, drinking or toileting. AFTER WORK: Before removing gloves, wash them with soap and water. Take off all work clothes and shoes. Shower using soap and water. Wear only clean clothes when leaving job. Do not wear contaminated clothing. Personal and protective clothing worn during work must be laundered separately from household articles. Store protective clothing separately from personal clothing. Clean or launder protective clothing after each use.

#### **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds. For terrestrial uses, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Cover or soil-incorporate spills.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting 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.

#### REENTRY STATEMENT

Keep all unprotected persons out of operating areas or vicinity where there may be drift. Reentry into treated areas is prohibited for 24 hours after the end of application unless the protective clothing specified elsewhere on this label is worn.

Certain states may require more restrictive reentry intervals; consult your State Department or Agriculture for further information.

Written or oral warnings regarding use of protective clothing and accidental exposure must be given to workers who are expected to be in treated areas or in areas about to be treated.

CROPS	MISECTS	AMOUNT' OFTHENE 90 S PER ACRE	ACRES PER LE ORTHENE POS	PURTHER USE INSTRUCTIONS**	
	Theips	3 2 02	I to to 5 acres	Apply if water at 1 to 3 gais	21
Cotton	Piant bugs (Lygus)	0.25 to 1 tb	lib to 4 octes up to 1 lb to 1 octe	(AZ 3 to 5 gais ) saray per acre 1 by air Gallonage should be in creased as pant size increases 1 to insure thorough coverage (in	
	]	CA. AZ ONLY 0.3 to 1 ib.	CA, AZ ONLY 1 lb, to 2 acres up to 1 lb, to 1 acre	CA apply a minimum of 5 gals less agre by air; Apply 10 to 25 gals, spray ser acre by ground Apply when seas or insects first	•
	Fischopper	0.25 lb.	I ip, to 4 acres	deposer. Repeat as necessary to maintain control Lygus — Use higher rates for lygus adults that have migrated limbs conton.	į
	Cotton Ashid Whiteliy	0.5 to 1 lb.	1 lb. to 2 earse up to 1 lb. to 1 ears	Apply in water at 3 to 10 gals spray per acre by air (nunmum 5 gals, ser acre in CA, AZ) or	
	Arthywarps (antholing Best Arthywarps) Cabbage Langer	7 Ma.	1 lb. to 1 acre	10 to 25 mis. agray per acre by grund, Amby when eggs or in- arcts first agreer. Repeat as ne:=140ry 10 mismen control.	
	Baltwarm Tebecco Budwaren	E. OF ROCKIES 0.5 to 1 lb. CA. AZ ONLY	E. OF ROCKIES  I lb. to 2 server up to  I lb. to 1 serve	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	
	Larvage Adults	1 lb.	CA AZ ONLY	ground  Bellwarm — Budwarm Larvae: Early season light intestation use 1 lb. to 2 stores. Mist and late season magazine to severe	
				infesterions use 1 lb. to 1 ecre. Apply when aggs appear and report at a 3 to 7 day interval, Bulturary — Budwary Adults:	
	i	-		Moths are controlled when they come in direct gentect with apray principe during application. Moth kill is most likely to occur when application is made lare in the evenings during periods of peak activity.	
	EBB1/ DEADHATCH®	0.25 to 0.5 lb.	1 fb. to 4 scress up to 1 lb. to 2 scress	Bellwerm — Redwerm Eggs: When spray sertices come in direct contact with eggs, highting larvae may be controlled as they consume and emerge from their egg casing. For DEADHATCH (contact ovicidal activity) and larval control, eggly ORTHENE 90 S in combinesson with lessori- cides (including synthetic pro- introlds in the fellowing label	·
<u>{</u>		1 16.	1 to to 1 acre	cotton) registered for use on cotton at their researcheruled larvicides label rates.	
	Pink Boltwarm (CA, AZ)	l	1	Pink Belivers — Apply when insects opened and repeat of a 5 to 7 day interval.	
	Stinkbugs Cutworms	O.B ib	1 lb. to 1.25 ecres	Cutvarina — Control mediures ore most effective when greated applications are made in the evenings and the provide applications are made in the evenings and the paper portion and lease of the plant, Apply in woner or 10 to 25 gals, sarely par acre by pround. Aarlel applications are not as effective in controlling cutworms. However, should acreal explication be reconsury apply in urser of 3 to 10 gals, spray dor acre (minimum 5 gals, per acre in AZ). Apply when insecting apply of a controlling and apply when insecting and apply of a controlling and apply when insecting and apply of a controlling and apply when insecting and apply of a controlling and apply apply apply apply apply apply apply apply and apply	)

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

#### COTTON TANK MIXES

	AMOUNT ORTHERE TO S + LORSEAND 4E	Further Use	Days to
 Armyworms, Bellveam, Cobbets Losger, Cetton Ashlel. Cerworms. Floathopper, Greathopsers, Pink Bollveam, Flent Bugs, (Lypus, Mirida), Soth Marsh Caterpiller, Throps. Tabspros Budwarms, Whitefly	4.44 ez. to 17,77 ez. 1 to 2 ets.	Do not faed yen trash or treated, forege to irvestock, Do not allow livestock, Do not allow livestock to graze on wested ereas	Hervest 21

CROPS	INSECTS_	AMOUNT OITHENE PO S (ex.)  **SYNTHETIC PYETHKOID (fl. ex.)  PER ACRE	PYRETHROID MAXIMUM LBS, ACTIVE PER SEASON	FUETHER USE INSTRUCTIONS	DAYS TO HABYEST FOR EACH COMBINATION
Cotton	Bollworm Tobacco	ORTHONE 90 5		Begin esolications when east or in-	
	Sudworm Cabboge Lapaer	1 lb. to 1 egs PYDRING 2 4 EC, 5.3 - 10.47		rects eaged and eagily as needed to I maintein control	2,
	Plant bugs Thrips	ASANA 1.7 EC. 1.4 - 3.41	0.5	Apply in 3 to 5	21
	Floghessers	ASAMA@ XL 3.9 - 9.6"	C.S	oerial aquigment or	21
	Boltworm (CA.AZ:	CAPTURE® 2 C. 1.3 - 6.4	0.5	of water with	2.
	Apr ds Whitefly	BAYTHEOID® 2 EC. 1 6 = 3 2	0.60	Do not feed ain	<b>:</b> `
	Corron Leaf	KARATEM 1 E 3 2 - 5 12	0:	orlow animals to oraze on treates	:
	Fall Armyworm Cutworms	(Except CA) AMBUSHB 2 EC, 6 4 - 12 8	3.0	oreas Study busy and	5.
	Stinkbugs Sweet Pototo	POUNCE <b>®</b> 3 2 EC 7 - 81	3 C	Cutumma- Use ORTHENE or 1	3.
	Whitefly	AMMO@ 2'S EC. 2 5*	1 0	Ib to 1.25 ecres	:
		CrMBUSHR 3 EC. 17 - 2 56*	10	rections restrictions	21
		SCOUTH 03 EC. 44 - 8 (Except CA) or	0 10	the EPA registered labels are to be	20
		SCOUTH X-TRA, 2 13 = 3 3)	0.14	followed	28

Use how rate unit for hight innect infesterions

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<sup>\*\*</sup> Synthetic growthreads should be used within the guidelines of state and/or regional resistance management programs and recommendations

## COTTON SEED HOPPER BOX TREATMENT (EXCEPT AZ, CA AND THE BLACK LANDS OF TEXAS)

Crep	Insects	ORTHENE 90 S	Further Use Instructions
Cotton	Thrips Cotton Aphids Block (Greav) Cutworm	2.5 to 3.25 az.	Apply 2.5 to 3.25 az. ORTHENE 90 5 per acre in the planter bax as a dry powder, Even coverage is required for acceptable insect control. To obtain even average, fill planter bax 2; till of seed, add the proper amount of ORTHENE 90 5 and mix thoroughly with a stick, Add the remainder of the seed to the planter bax and the additional required amount of ORTHENE 90 5 followed by thorough mixing. For improved mixing, premix seed with ORTHENE 90 5 in a suitable container, then pour treated seed into planter bax. Loss of ORTHENE 90 5 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 90 S PER ACRE	ACRES PER LB. ORTHENE 90 S	FURTHER USE INSTRUCTIONS
Cotton	Aphids Thrips Black (Greasy) Cutworm	0.56 to 1.1 lbs. (.5 to 1 lb. active)	1 lb. to 1.8 up to 1 lb. to .9 ggres	Refer to the ORTHENE 90 S conversion chart before making product application  ORTHENE 90 S CONVERSION CHART  LBS. OZ.  18. ACTIVE ORTHENE 90 S ORTHENE 90 S  0.5 0.56 9.0  0.6 0.67 10.7  0.75 0.83 13.3  0.9 1.0 16.0  1.0 16.0  1.0 17.6  Apply 0.56 to 1.1 lbs. ORTHENE 90 S in 3 to 5 gois of water per acre as an in-furrow apray.  NOTE: For the Blacklands of Taxes use only the 1.1 lbs. ORTHENE 90 S can be mixed with fungicides that are sprayed in-furrow for disease control. Flat-fan nazzles 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 nazzles may not provide a spray pattern that insures maximum spray deposition in the seed furrow. Cone type nazzles may not provide a spray pattern that insures maximum spray deposition in the seed furrow. Cone type nazzles may not provide a spray pattern that insures maximum spray deposition in the seed furrow on the seed furrow on the furrow opener and should be checked frequently to insure should have tubing is prayerly positioned to deposit to the type solution into the seed furrow opener and should be checked frequently to insure that the tubing is prayerly positioned to deposit spray solution into the seed furrow approved to deposit to the spray solution into the seed furrow approved to deposit that the tubing is prayerly positioned to deposit spray solution into the seed furrow.

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

PROMISTIONS
Do not contominate 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 coal, dry place. Protect from excessive heat.
Do not contominate food or foodstuffs.
Do not contominate food or foodstuffs.
Do not store or trensport near feed or food.
For help with any soill, leak, fire or exposure involving this material, call day or night 1-800-892-0099 or Chemtrec 1-800-424-9300.
PESTICIDE DISPOSAL
Waster resulting from the use of this product may be disposed of an site or at an experience of empty beginto explication equipment. Do not reuse container Dispose of empty beg into explication equipment. Do not reuse container Dispose of empty beg into explication equipment. Do not reuse container Dispose of empty beg into explication equipment. Do not reuse container Dispose of empty beg into explication equipment. Do not reuse container Dispose of empty beg into explication equipment, Do not reuse container Dispose of empty beg into explication equipment, Do not reuse container Dispose of empty beg into explication equipment, Do not reuse container Dispose of empty beg into explication equipment, Do not reuse container Dispose of empty beg into explication equipment, Do not reuse container Dispose of empty beg into explication equipment, Do not reuse container Dispose of empty beg into explication equipment, Do not reuse container.

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IMPORTANT INFORMATION. READ BEFORE USING PRODUCT.

LIMITED WARRANTY: 1. Volent U.S.A. Corporation warrants that this product conforms to the chemical discription on the label and is reasonably fit for use under average conditions when used strictly in recordance with the directions on the labeling. Valent does not make not 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 alorst 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 flabel directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by Valent under I above) resulting from handling, storage, and use of the product.

3. Precautions stated on the labeling should be followed to avoid hazdrdous exposure to the product.

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 Agricultural Products for cypermethrin insecticide.

LORSBAN® — Reg. TM of Dow Chemical Company for chlorpyrifos 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 fenvalerate insecticide.

SCOUT® — Reg. TM of Hoechst-Roussel Agri-Vet Co. for tralomethrin pyrethroid insecticide.