ACCEPTED

JUN 15 1990

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COPY A COTTON IN-FURROW APPLICAT			TON Red intended to the temperature of temperature of temperature of t		
CROP	INSECTS	AMOUNT ORTHENE 90 S PER ACRE	FURTHER USE INSTRUCTIONS		
Cotton	Aphids Thrips		before making properties of the properties of th	THENE 90 S conversion roduct application. S CONVERSION CHART 2. FORMULATED PRODUCT 8.9 10.7 12.4 14.2 16.0 17.8	
••			90 S in 3 to 5 g furrow acre (13, row). ORTHENE 9 with fungicides in-furrow for di Flat-fan nozzles application show the fanned spray with the row to	olb. active ORTHENE gals. of water per 1068 linear feet of 100 S can be mixed that are sprayed sease control. It used for in-furrowald be set so that a pattern is aligned insure good spray the sand furrowald the set of the sease control.	

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deposition in the seed furrow. Vone type nozzles may not provide a spray pattern that insures maximum spray deposition in the seed furrow, and should be avoided. Shray systems that employ metal or plastic tubing for delivery of spray colution 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.

ORTHENE 90 S

EPA Reg. No. 59639-33

Submitted: January 8, 199

PRECAUTIONARY STATEMENTS **HAZARDS TO HUMANS & DOMESTIC ANIMALS**

Harmful if swallowed. Causes eye irritation. Avoid contact with eyes, skin. and clothing. Avoid breathing dust or spray mist. Wash hands thoroughly

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 (415) 233-3737 Acephate .: 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, DISPOSA! OF THE PESTICIDE, AND Jareas for which a reentry interval has been established EARLY REENTRY INTO TREATED AREAS: chemicalresistant 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 lauricer protective clothing after each use

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds. Do not apply directly to water or wetlands. (swamps, bogs, marshes and potholes). 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 PRECAU-TIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE **AND FEDERAL REGULATIONS**

REENTRY STATEMENT

Keep all unprotected persons out of operating areas or vicinity where there

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 of 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



ORTHENE **90 S**

(INSECTICIDE)

Active Ingredient *Acephate (0,S-Dimethyl acetylphosphoramidothioate) Inert Ingredients *ORTHENE®, Acephate U.S. Pat. No. 3,716,600

By Wt 90°c 10%

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KEEP OUT OF REACH OF CHILDREN CAUTION -SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS...

NET WEIGHT 20 POUNDS

Manufactured for Valent U.S.A. Corporation © 1989 Walnut Creek CA 94596-8025 Product 5593 Made in U.S.A. R form 256-A EPA Reg. No 59639-33-AA

DIRECTIONS

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

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Crops	insects	Label Rate* (Lhs. to Acres) (Fermulated)	Further Use Instructions	Days to Harvest
	Thrips	1 lb to 5 Acres (3 2 oz per acre)	Apply in water at 3 to 10 gals spray per acre by air (minimum	21
	Plantbugs (Lygus)	1 lb to 4 Acres up to 1 lb to 1 Acre (0 25 to 1 lb per scre)	5 gals./ acre in CA, AZ) or 10 to 25 gals: spray per acre by ground Apply when eggs or insects first appear Repeat as necessary to	
		1 lb to 2 Acres up to 1 lb to 1 Acre (CA, AZ) (0.5 lb to 1 lb per acre)	Lygus - Use higher rate for lygus adults that have migrated into cotton	
	Fleahopper	1 lb to 4 Acres (0 25 lb per acre)	worm 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. Pink Bollworm Apply when insects appear and repeat at a 5 to 7 day spray interval. Do not feed gin trash to livestock or allow animals to graze on treated areas.	
	Cotton Aphid Whitefly	1 lb to 2 Acres up to 1 lb to 1 Acre (0.5 lb to 1 lb per acre)		!
	Armyworms Cabbage Looper	1 to 1 Acre (1 to per a		
	Boltworm Tobacco Budworm	1 lb to 2 Acres up to 1 lb to 1 Acre (East of Rockies) (0.5 lb to 1 lb. per acre)		
		t to 1 Acre (CA, AZ) (1 lb per acre)		
	Stinkbugs (CA, AZ)	1 lb to 125 Acre (0.8 lb per acre)		1
	Pink Boltworm (CA, AZ)	1 lb to 1 Acre (1 lb per acre)	1	1

"Where a rate is given, use the higher rate when large (late instar) larvae are present or where heavy insect pressure exists

COTTON TANK MIXES

Creps	Insects	Amount ORTHENE 90 S + LORSBAN® 4E Per Acre	Further Use Instructions	Days to
Cotton (CA, AZ)	Armyworn's Bollworm Cabbage Looper Cotton Aphid Cutworms Fleahopper Grasshoppers Firit Bollworm Print Bugs (Lygus, Mirids) Saft Marsh Caterpillar Thrips Tubacco Budworm Whitefiy	. +	No not feed gin trash or treated forage to evestock. Do not allow livestock to graze on treated areas.	· 21 ·
Crops Conon (Except	Insects	Amount ORTHENE 90 S + PYDRIN® 2 4EC Per Acre 18 °3 cz + 27 · 11 °0z	Further Use Instructions Begin applications when eggs or insects appear and apply as	Days to Harvest
CA, AZI	1		needed to maintain control Apply in 3 to 5 gals of water with aerial equipment or in 10 m. 25 gals of water with ground equipment. Do not feed gin trash to livestock	
		!	or allow animals to graze treated areas Do not apply more than two (2) lbs active ingredient of PYDRIN to a crop in a growing season All applicable directions restrictions and precautions on the EPA registered labels are to be followed.	

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

Crep	insects	Amount ORTHENE 90 S Por Acro	Further Use Instructions
Cotton	Thrips Cotton Aphids Black (Greasy) Cutworm	2 5 to 3 25 oz	Apply 2 5to 3 25 oz ORTHENE 90 S paracre in the planter box as a dry powder. Even coverage is required for acceptable insect control. To obtain even coverage, fill planter box. I full of seed, add the proper amount of ORTHENE 90 S and mix thoroughly with a stick. Add the remainder of the seed to the planter box and the additional required amount of ORTHENE 90 S followed by thorough mixing. For improved mixing, premix seed with ORTHENE 90 S in a suitable container, then pour treated seed into planter box. Loss of ORTHENE 90 S 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.

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 (415) 233-3737

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.
- Precautions stated on the labeling should be followed to avoid hazardous exposure to the product.

LORSBAN®—Reg. TM of Dow Chemical Company for chlorpyrifos insecticide. PYDRIN®—Reg. TM of E. I. du Pont de Nemours & Co., Inc. for fervalerate insecticide.

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