

**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 800-457-2022. 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] EARLY 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. 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 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 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.



**NOT REVIEWED**

In Accordance with FR Notice 82-2.

Based on Draft Labeling Dated 4/12/90

**ORTHENE®**  
**90 S**

**(INSECTICIDE)**

**Active Ingredient**

\*Acephate (O,S-Dimethyl

acetylphosphoramidothioate)

**Inert Ingredients**

**By Wt.**

**90%**

**10%**

\*ORTHENE®, Acephate U.S. Pat. No. 3,716,600

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**SEE SIDE PANEL FOR ADDITIONAL  
PRECAUTIONARY STATEMENTS**

**THIS PRODUCT MAY NOT BE REFORMULATED, REPACKAGED  
OR RELABELED.**

**NET WEIGHT 20 POUNDS**

Manufactured for

**Valent U.S.A. Corporation © 1990**

Walnut Creek CA 94596-8025

Product 5593

Made in U.S.A.

R Form 256-C

EPA Reg. No. 59639-33-AA

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

**COTTON**

Crops	Insects	Label Rate* (Lbs. to Acre) (Formulated)	Further Use Instructions	Days to Harvest
Cotton	Thrips	1 lb. to 3 Acres (3.2 oz. per acre)	Apply in water at 3 to 10 gals. spray per acre by air (minimum 5 gals. / acre in CA, AZ) or 10 to 25 gals. spray per acre by ground.	21
	Planthoppers (Lygus)	1 lb. to 4 Acres up to 1 lb. to 1 Acre (0.25 lb. to 1 lb. per acre)	Apply when eggs or insects first appear. Repeat as necessary to maintain control.	
		1 lb. to 2 Acres up to 1 lb. to 1 Acre (CA, AZ)	Do not feed gin trash to live stock or allow animals to graze on treated areas.	
		0.5 lb. to 1 lb. per acre)	Lygus—Use higher rate for lygus adults that have migrated into cotton.	
	Flea hopper	1 lb. to 4 Acres (0.25 lb. per acre)	Beltworm and Tobacco Budworm Early season, light infestation use 1 lb. to 2 acres. Mid and late season moderate to severe infestations use 1 lb. to 1 acre.	
	Cotton Aphid	1 lb. to 2 Acres up to 0.5 lb. to 1 lb. per acre)	Apply when eggs appear and repeat at a 3 to 7 day interval.	
	Whitefly	1 lb. to 1 Acre (1 lb. per acre)	Adults/Larvae: Meths are con- trolled when they come in direct contact with spray particles dur- ing application. Meth kill is most likely to occur when ap- plication is made late in the evening during periods of peak activity. Eggs: When spray par- ticles come in direct contact with eggs, hatching larvae may be controlled as they consume and emerge from their egg casing.	
	Armyworms	1 lb. to 1 Acre (1 lb. per acre)	Pink Beltworm—Apply when in- sects appear and repeat at a 5 to 7 day interval.	
	Cabbage Looper	1 lb. to 2 Acres up to 1 lb. to 1 Acre (East of Rockies)		
	Beltworm	1 lb. to 1 Acre (East of Rockies)		
	Tobacco Budworm	1 lb. to 1 Acre (CA, AZ)		
	Artichoke Larvae	1 lb. to 1 Acre (CA, AZ)		
	Egg, Dead Moth	1 lb. to 1 Acre (CA, AZ)		
	Stinkbugs (CA, AZ)	1 lb. to 1 Acre (0.8 lb. per acre)		
	Pink Beltworm (CA, AZ)	1 lb. to 1 Acre (1 lb. per acre)		

\*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**

Crops	Insects	Amount ORTHENE 90 S + LOESBAN® 4E Per Acre	Further Use Instructions	Days to Harvest
Cotton (CA, AZ)	Armyworms	4.44 oz. to 17.77 oz.	Do not feed gin trash or treated forage to livestock. Do not allow livestock to graze in treated areas.	21
	Beltworm	1 to 2 pts.		
	Cabbage Looper			
	Cotton Aphid			
	Cutworms			
	Flea hopper			
	Grasshoppers			
	Pink Beltworm			
	Plant Bugs (Lygus, Mirids)			
	Soft Moth			
	Caterpillar			
	Thrips			
	Tobacco Budworm			
	Whitefly			

Crops	Insects	Amount ORTHENE 90 S + PYDRIN® 2.4EC Per Acre	Further Use Instructions	Days to Harvest
Cotton (Except CA, AZ)	Tobacco Budworm	4.93 oz. to 12.5 fl. oz.	Begin applications when eggs or insects appear and apply as needed to maintain control.	21
			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 live stock 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, restric- tions and precautions on the EPA registered labels are to be followed.	

**COTTON  
(EXCEPT AZ, CA)**

Crop	Insects	Days to Harvest
Cotton	Thrips	21
	Cotton Aphids (Lygus)	

Do not apply under conditions in  
that might be damaged or the  
NOTE: This product is sold by  
fully mature this material is

**STO**

**PROHIBITIONS**  
Do not contaminate water, food, or feed.  
Open dumping is prohibited.

**STORAGE**  
Keep pesticide in original container.  
Do not put concentrate or dilution  
in cool, dry place. Protect  
Do not contaminate food or feed.  
Do not store or transport near  
For help with any spill, leak,  
night 800 457 2072.

**PESTICIDE DISPOSAL**  
Wastes resulting from the use of  
approved waste disposal facilities.

**CONTAINER DISPOSAL**  
Completely empty bag into a  
of empty bag in a sanitary location.  
local authorities, by burning.  
If burned, stay out of smoke.

**IMPORTANT INFORMATION**

**LIMITED WARRANTY:** 1. Valient  
to the chemical description on  
conditions when used strictly in  
does not make a guarantee or  
guarantee or representation, e  
NO IMPLIED WARRANTY OF  
PURPOSE IS MADE.  
2. Critical and unforeseeable  
all risks in connection with th  
limited to damage to plants in  
control over the handling and  
to other plants or crops. Such  
under average conditions for  
directions are followed. Buyer  
except those as stated by Vali  
use of the product.  
3. Precautions stated on the la  
to the product.

LOESBAN® Reg. TM of Dow

PYDRIN® Reg. TM of E. I. du

ORTHENE® Reg. TM of Ciba