



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505C)  
Ariel Rios Building  
1200 Pennsylvania Ave., NW  
Washington, D.C. 20460

EPA Reg Number:

70506-76

Date of Issuance:

APR 13 2006

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance: conditional

Name of Pesticide Product

Accephate 90 DF Insecticide

Name and Address of Registrant (include ZIP Code):

United Phosphorus, Inc.  
423 Riverview Plaza  
Trenton, NJ 08611

Note: Changes in labeling 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 registration number.

On the basis of information furnished by the registrant, the above named pesticide 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 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:

1. Submit and or cite all data required for registration of your product when the Agency requires all registrants of similar products to submit such data.
2. Since the Interim Reregistration Eligibility Decision (IRED) and the accompanying Data Call-In (DCI) have been issued for acephate and since it has been determined that the exposure data cited in support of the subject product may also be used to address the DCI data requirement for your subject product, the subject registration is being issued with the condition that the cited data are found to be acceptable in the support of the continued registration of certain acephate soluble pellet formulations such as the subject product as an equivalent engineering control method as described in the IRED. If the data are found not to be supportive of the engineering control designation, such soluble pellet formulations including the subject product will be subject to the additional risk mitigation measures identified in the IRED.
3. You submit the data listed below within 18 months of the date of this Registration Notice.  
  
Storage stability (830.6317) and Corrosion characteristics (830.6320)
4. You make the following label changes and the following data matrix corrections before you release the product for shipment:

Signature of Approving Official

Date

APR 13 2006

a. Add the designation, EPA Reg. No. 70506-76.

b. Add the statement below to the PPE box at the end of the PPE, but before the PPE cleaning and maintenance instructions.

See Engineering Controls for additional information.

c. Revise the directions for repeat applications so that the limitations on the spray intervals and the maximum seasonal application rates are made clear to the user. This may be accomplished by directing the user to such limitations wherever repeat applications are specified such as the example indicated below.

Repeat as necessary to maintain control.\*

\*Do not apply more than 4.0 lbs. ai/A (4.4 lbs. product) per crop cycle. Minimum spray intervals are 3 days for application rates at 0.56 lb. product or less and 7 days for application rates greater than 0.56 lb. product.

d. The conflict between directions to use up to 1.1 lbs. product in areas East of the Rockies and the prohibition against aerial application of more than 0.83 lb/A (0.75 lb ai/A) in all areas of the U.S. other than CA and AZ must be resolved. This may be accomplished in a manner similar to the example given above in item 3.c.

e. Correct the data matrix as described below:

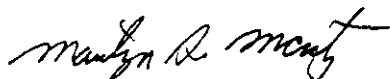
-Correct the typographical error occurring in the second number of the 8 number MRIDs cited for the 870.6300 data requirement from "5" to "6".

Submit two copies of the revised final printed label and the revised data matrix incorporating these corrections 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.

Sincerely,



Marilyn A. Mautz  
Biologist  
Insecticide-Rodenticide Branch  
Registration Division (7504C)

3/14

[FRONT OF BAG]  
**ACEPHATE 90 DF INSECTICIDE**

<b>ACTIVE INGREDIENT</b>	<b>By Wt.</b>
Acephate (O, S-Dimethylacetyl phosphoramidothioate).....	90%
<b>INERT INGREDIENTS</b> .....	10%
<b>TOTAL</b> .....	<b>100%</b>

EPA Reg. No. 70506-  
EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

<b>FIRST AID</b>	
Contains an organophosphate that inhibits cholinesterase.	
If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<p><b>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical treatment.</b></p>	
<p><b>NOTE TO PHYSICIAN:</b> 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.</p>	

Refer to Booklet attached to the back of this container for complete label.

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call  
CHEMTREC 1-800-424-9300**

**Manufactured for:**  
United Phosphorus, Inc.  
423 Riverview Plaza  
Trenton, NJ 08611  
1-800-247-1557 • www.upi-us.com

**Net Contents:**

**ACCEPTED**  
with **COMMENTS**  
in EPA Letter Dated:

APR 13 2006

Under the Federal Insecticide  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
70506-76

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[BACK OF BAG]

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS & DOMESTIC ANIMALS**

**CAUTION.** Harmful if absorbed through skin or swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist. Wash hands thoroughly after handling.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Exposed treated seed may be hazardous to birds and other wildlife. Dispose of all excess treated seed and seed packaging by burial away from bodies of water. 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 the treatment area.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Eliminations System (NPDES) permitted and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**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 FOR USE 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. Refer to supplemental labeling under "AGRICULTURAL USE REQUIREMENTS" in the DIRECTIONS FOR USE section for information about this standard.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Keep pesticide in original container. Do not put concentrated or dilute into food or drink containers. Store in a cool, dry place. Protect from excessive heat. Do not contaminate food or foodstuffs. Do not store or transport near feed or food.

**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.

**READ  
USE DIRECTIONS  
BEFORE USING**



**ATTACHED USE DIRECTIONS**

Rev. 9/16/05

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# ACEPHATE 90 DF Insecticide

ACTIVE INGREDIENT	By Wt.
Acephate (O, S-Dimethyl acetylphosphoramidothioate) .....	90%
OTHER INGREDIENTS .....	10%
TOTAL	100%

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

<b>FIRST AID</b>	
Contains an organophosphate that inhibits cholinesterase.	
If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice</li> </ul>
<p><b>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical treatment, contact the National Pesticide Information Center at 1-800-858-7378.</b></p>	
<p>NOTE TO PHYSICIAN. 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</p>	

For Chemical Emergency Assistance (Spill, Leak, Fire or Accident), Call CHEMTREC  
1-800-424-9300

EPA Reg. No. 70506-

EPA Est. No.

**Manufactured for:**  
United Phosphorus, Inc.  
423 Riverview Plaza  
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**Net Contents:**

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## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS & DOMESTIC ANIMALS

#### CAUTION

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

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

**Applicators, mixers, loaders and other handlers must wear:**

- long-sleeved shirt and long pants
- chemical resistant gloves made of any water-proof material such as polyethylene or polyvinyl chloride for all mixers and loader, and for applicators using hand-held application equipment
- shoes and socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### ENGINEERING CONTROLS

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

The use of human flaggers is prohibited.

#### USER SAFETY RECOMMENDATIONS

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE 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. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Exposed treated seed may be hazardous to birds and other wildlife. Dispose of all excess treated seed and seed packaging by burial away from bodies of water. Cover or soil-incorporate spills.

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

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## 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 FOR USE 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.

Do not apply using low pressure handwand equipment.

Do not apply this product by chemigation.

Do not apply this product in a manner that allows spray to drift and cause adverse effects to humans, animals or other non-target sites. Avoiding spray drift at the application site is the responsibility of the applicator. Applicators should evaluate conditions existing at the time of application and make appropriate adjustments to reduce drift.

### 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 until 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
- chemical-resistant gloves made of any waterproof material
- shoes plus socks.

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## DIRECTIONS

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### TANK MIXES

**NOTICE** Tank mixing of this product with any other product which is not specifically and expressly authorized by the label shall be exclusive risk of the user, applicator, and/or application advisor.

Read and follow the entire label of each product to be used in the tank mix with this product.

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TABLE OF EQUIVALENTS

AMOUNT OF ACEPHATE 90 DF PER ACRE	ACRES TREATED BY A 5 LB. PACKAGE	ACRES TREATED BY A 10 LB. PACKAGE	ACRES TREATED BY A 20 LB. PACKAGE
2.5 oz.	32	64	128
3.2 oz.	25	50	100
3.25 oz.	24.6	49.2	98.4
0.25 lb.	20	40	80
0.28 lb.	17.8	35.7	71.4
0.5 lb.	10	20	40
0.56 lb.	8.9	17.8	35.6
0.8 lb.	6.25	12.5	25
1.0 lb.	5	10	20
1.1 lb.	4.5	9.1	18.2

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**GENERAL INFORMATION**


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

ACEPHATE 90 DF is an insecticide which controls a wide range of important pests in cotton. The active ingredient is acephate, a water-soluble insecticide readily absorbed by plant roots and foliage to give systemic control of feeding insects. Insect pests are generally controlled more effectively by ACEPHATE 90 DF through ingestion than by contact. ACEPHATE 90 DF can be applied as hopper-box, in-furrow and foliar treatments in cotton. Application of ACEPHATE 90 DF to maintain control should be repeated only as directed.

**FAILURE TO FOLLOW THE DIRECTION FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, AND/OR ILLEGAL RESIDUES**

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 the product's nature, settling is likely to occur

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**PREPARATION OF SPRAY SOLUTION**


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To prepare spray solution empty the entire contents of package into a spray tank containing at least one-half of the total quantity of water required. Add remaining water with the agitator running until the spray volume is reached. Do not add any liquid fertilizers, micronutrients or adjuvants to the spray solution until the ACEPHATE 90 DF has completely dissolved. ACEPHATE 90 DF should completely dissolve in approximately five minutes. Dissolution rate may be slowed by cold water, lack of agitation, or water containing high concentrations of boron or sulfur.



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**COTTON IN-FURROW TREATMENT**

<b>PESTS CONTROLLED</b>	<b>AMOUNT ACEPHATE 90 DF PER ACRE</b>	<b>APPLICATION INSTRUCTIONS</b>	<b>RESTRICTIONS</b>
<p>Aphids* Thrips Black (Greasy) Cutworm (Except CA)</p> <p>* Excluding Cotton Aphids in AZ &amp; CA</p>	<p>0.56 to 1.1 lbs. (8.9 to 17.6 oz.)</p> <p><b>NOTE:</b> for the Blacklands of Texas use 1.1 lbs/A (17.6 oz.) ACEPHATE 90 DF</p>	<p>Apply ACEPHATE 90 DF in 3 to 5 gals. of water per acre as an in-furrow spray. Use flat-fan nozzles for this application, and align nozzles to ensure good spray deposition into the seed furrow. Cone type nozzles may not provide a spray pattern that ensures maximum spray deposition in the seed furrow, and should be avoided.</p> <p>Spray systems that employ metal or plastic tubing for delivery of spray solution 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.</p> <p>ACEPHATE 90 DF can be mixed with fungicides that are sprayed in-furrow for disease control.</p>	<p>Do not use treated seed for food or feed purposes or process for oil.</p> <p>Do not feed gin trash to livestock.</p> <p>Do not allow animals to graze on treated areas.</p> <p>Do not apply more than 4.4 lbs. of ACEPHATE 90 DF per acre (4.0 lb AI/A) per crop cycle. This includes all uses of ACEPHATE 90 DF in commercial seed-treatment, in-furrow spray, and foliar applications.</p>

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**COMMERCIALLY TREATED COTTONSEED  
--FOR USE BY COMMERCIAL SEED TREATERS ONLY--**

PESTS CONTROLLED	AMOUNT ACEPHATE 90 DF PER 100 LBS. COTTONSEED	EFFECTIVENESS OF ACEPHATE 90 DF	APPLICATION INSTRUCTIONS	RESTRICTIONS
Cotton Aphids Thrips	0.44 lb (7.1 oz.)	ACEPHATE 90 DF provides effective reduction of thrips and cotton aphids for up to three weeks after planting.	<p>Apply ACEPHATE 90 DF as a separate treatment using enough water to give adequate coverage of the seed. ACEPHATE 90 DF dissolves quickly in water with a minimum of agitation.</p> <p>ACEPHATE 90 DF can be mixed in the slurry tank with most of the fungicide seed treatments commonly used.</p> <p>This formulation does not contain a dye. Compliance with the Federal Seed Act and 21 CFR Chapter 1 Section 2.5 requires that all seeds treated with this product must be colored to distinguish from and prevent subsequent inadvertent use as food for man or feed for animals.</p> <p>Treated seeds must not be used for, or mixed with food for animal feed, or processed for oil. Seeds treated with ACEPHATE 90 DF may be considered adulterated under state and federal laws if sold or shipped as food or feedstuffs. Seeds commercially treated with ACEPHATE 90 DF must be labeled as follows: "TREATED SEED: DO NOT USE FOR FOOD, FEED OR OIL."</p>	<p>Do not apply more than 4.4 lbs. of ACEPHATE 90 DF per acre (4.0 lb A/A) per crop cycle. This includes all uses of ACEPHATE 90 DF in commercial seed-treatment, in-furrow spray, and foliar applications.</p> <p>Do not use treated seed for food or feed purposes or process for oil.</p>
Black (Greasy) Cutworm		<p>ACEPHATE 90 DF provides reduction of Black (greasy) cutworm from planting through the 3<sup>rd</sup> to 4<sup>th</sup> leaf stage of development.</p> <p>When planting into fields where large cutworms are present, (5<sup>th</sup> instar and larger), economic damage may occur.</p>	Observe all precautions and limitations on labeling of all products used in mixtures	

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**FOLIAR APPLICATION TO COTTON**

**FOLIAR APPLICATION**

PESTS CONTROLLED	AMOUNT ACEPHATE 90 DF PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS	MINIMUM SPRAY INTERVAL (DAYS)	DAYS TO HARVEST
Thrips (including Western Flower Thrips)	3.2 oz.	Apply in water at 3 to 10 gals. spray per acre by air (minimum 5 gals per acre in CA and AZ) or 10 to 25 gals. spray per acre by ground. Use sufficient carrier volume to provide thorough, uniform coverage.	<p><b>Aerial application: Do not apply ACEPHATE 90 DF at more than 1.1 lb/A (1.0 lb A/A) in CA and AZ and not more than 0.83 lb/A (0.75 lb A/A) in other areas of the U.S.</b></p> <p>Do not use treated seed for food or feed purposes or process for oil.</p> <p>Do not feed gin trash to livestock.</p> <p>Do not allow animals to graze on treated areas.</p> <p>Do not apply more than 4.4 lbs. of ACEPHATE 90 DF per acre (4.0 lb A/A) per crop cycle. This includes all uses of ACEPHATE 90 DF in commercial seed-treatment, in-furrow spray, and foliar applications.</p>	<p>3 (for application rates at 0.56 lb. or less)</p> <p>7 (for application rates greater than 0.56 lb.)</p>	<p>21</p>
Plant Bugs (Lygus)	0.28 to 1.1 lbs.	<p>Apply when eggs or insects first appear. Repeat as necessary to maintain control.</p>			
Fleahopper	0.28 lb.				
Cotton Aphid (excluding AZ and CA)	0.56 to 1.1 lbs.	<p><b>Lygus</b> – Use the higher rate for Lygus adults that have migrated into cotton.</p>			
Whitefly (excluding Sweetpotato/Silver-leaf Whitefly)	0.56 to 1.1 lbs.	<p><b>Cotton Aphid</b> – This insect may develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current control recommendations.</p>			
Armyworms (excluding Beet Armyworm)	1.1 lbs.	<p><b>Armyworms &amp; Cabbage Looper</b> -- Apply when eggs first appear.</p>			
Cabbage Looper					
Bollworm Tobacco Budworm Adults Larvae Eggs (DEADHATCH®)	0.56 to 1.1 lbs. (East of Rockies) 1.1 lbs. (CA & AZ)	<p><b>Bollworm and Tobacco Budworm</b> – Early season light infestation use 0.56 lb. per acre Mid and late season moderate to severe infestations use 0.83 to 1.1 lbs per acre for moderate to severe infestations Apply when eggs first appear. Moths of budworm larvae are controlled when they come in direct contact with spray particles during application</p>			
Stinkbugs	0.83 lb.	<p>Moth kill is most likely to occur when application is made late in the evenings during periods of peak activity</p>			
Pink Bollworm (AZ & CA)	1.1 lbs.	<p><b>DEADHATCH®:</b> Control of emerging larvae by consumption of treated egg casings</p> <p><b>Pink Bollworm</b> – Apply when insects first appear.</p>			
Cutworms	0.83 lb.	<p><b>Cutworms</b> – Ground application is recommended Aerial applications are less effective, but may be used Apply in water at 3 to 10 gals. spray per acre by air (minimum 5 gals per acre in CA and AZ) or 10 to 25 gals. spray per acre by ground. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant. Apply when insects first appear or damage is first noted and repeat application as necessary to maintain control.</p>			

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**COTTON TANK MIXES**

**GENERAL USE PRECAUTIONS:**

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. Observe all restrictions and precautions that appear on all product labels. The most restrictive labeling applies when using a tank mix.

**RESISTANCE MANAGEMENT**

Cotton pest control programs, especially those for control of Sweetpotato/Silverleaf Whitefly populations, should employ a properly designed resistance management strategy. Such resistance management strategies include mixture or rotation of alternative classes of chemistry including organophosphates, carbamates, pyrethroids or insect growth regulators. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternative insecticides.

PESTS CONTROLLED	AMOUNT ACEPHATE 90 DF + CHLORPYRIFOS 4E PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS	MINIMUM SPRAY INTERVAL (DAYS)	DAYS TO HARVEST
Armyworms (excluding Beet Armyworm) Bollworms Cabbage Looper Cotton Aphid Cutworms Fleahopper Grasshoppers Pink Bollworm Plant Bugs (Lygus, Mirids) Salt Marsh Caterpillar Thrips Tobacco Budworm Whitefly (excluding Sweetpotato/Silverleaf Whitefly)	0.28 to 1.1 lbs. (4.4 to 17.6 oz.) ACEPHATE 90 DF + 1 to 2 pts. CHLORPYRIFOS 4E	<p>Apply when insects first appear or when damage is first noted and repeat application as necessary to maintain control.</p> <p>User should comply with all applicable directions, restrictions and precautions on the EPA registered label for CHLORPYRIFOS 4 E.</p> <p><b>By Ground:</b> Ground application is recommended. Apply in 10 to 25 gals. of spray per acre. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant.</p> <p><b>By Air:</b> Aerial applications are less effective, but may be used. Apply in 3 to 10 gals. spray per acre (minimum 5 gals spray per acre in CA).</p> <p><b>Cutworms:</b> Use 0.83 lb. per acre of ACEPHATE 90 DF.</p>	<p><b>Aerial application: Do not apply ACEPHATE 90 DF at more than 1.1 lb/A (1.0 lb AI/A) in CA and AZ and not more than 0.83 lb/A (0.75 lb AI/A) in other areas of the U.S.</b></p> <p>Do not feed gin trash or treated forage to livestock.</p> <p>Do not allow livestock to graze on treated areas.</p> <p>Do not apply more than 4.4 lbs. of ACEPHATE 90 DF per acre (4.0 lb AI/A) per crop cycle. This includes all uses of ACEPHATE 90 DF in commercial seed-treatment, in-furrow spray, and foliar applications.</p>	<p>3 (for application rates at 0.56 lb. or less)            7 (for application rates greater than 0.56 lb.)</p>	<p>21</p>
Sweetpotato/Silverleaf Whitefly	0.56 to 1.1 lb. (8.9 to 17.6 oz.) ACEPHATE 90 DF + 10 2/3 to 16 fl. oz. DANITOL® 2.4 EC	<p>Apply when insects first appear or when damage is first noted. Repeat applications may be needed to maintain control.</p> <p>Apply in water at 3 to 10 gals. spray per acre by air (minimum 5 gals per acre in CA) or 10 to 25 gals. spray per acre by ground.</p> <p>User should comply with all applicable directions, restrictions and precautions on the EPA registered label for DANITOL® 2.4 EC Spray.</p>			

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**COTTON TANK MIXES WITH PYRETHROIDS**

**GENERAL USE PRECAUTIONS:**

Synthetic Pyrethroids should be used within the guidelines of state and/or regional resistance management programs and recommendations. Always read and follow all label directions when using any pesticide alone or in tank mix combinations. Observe all restrictions and precautions that appear on all product labels. The most restrictive labeling applies when using a tank mix.

**RESISTANCE-MANAGEMENT**

Cotton pest control programs, especially those for control of Sweetpotato/Silverleaf Whitefly populations, should employ a properly designed resistance management strategy. Such resistance management strategies include mixture or rotation of alternative classes of chemistry including organophosphates, carbamates, pyrethroids or insect growth regulators. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternative insecticides.

PESTS CONTROLLED	ACEPHATE 90 DF AND TANK MIX PARTNER	AMOUNT OF ACEPHATE 90 DF + TANK MIX PARTNER PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS	MINIMUM SPRAY INTERVAL (DAYS)	DAYS TO HARVEST
Aphids Bollworm Cabbage Looper Cotton Leaf Perforator Cutworms* Fall Armyworm Fleahoppers	ACEPHATE 90 DF + one of the following:	0.56 to 1.1 lbs. per acre + one of the following:	Begin applications when eggs or insects appear and repeat application as needed to maintain control.  <b>By Ground:</b> Ground application is recommended. Control is most effective when ground applications	<b>Aerial application:</b> Do not apply ACEPHATE 90 DF at more than 1.1 lb/A (1.0 lb A/A) in CA and AZ and not more than 0.83 lb/A (0.75 lb A/A) in other areas of the	3 (for application rates at 0.56 lb or less)	21
Pink Bollworm (AZ & CA) Plantbugs Stinkbugs* Sweetpotato/Silverleaf Whitefly	Cypermethrin 2.5 EC*	Refer to the Cypermethrin 2.5 EC approved label for use instructions.	are made in the evenings and sprays are directed toward the base and lower portion of plant. Apply in water at 10 to 25 gals. spray per acre by ground.  <b>By Air:</b> Aerial applications are less effective, but may be used. Apply in water at 3	U.S.  Do not feed gin trash or treated forage to livestock.  Do not allow livestock to graze on treated areas.	7 (for application rates greater than 0.56 lb)	For use with SCOUT X-TRA, allow at least 28 days to elapse between final application
Thrips Tobacco Budworm Whitefly	ASANA® XL*	Refer to the ASANA® XL approved label for use instructions.	to 10 gals. spray per acre by air (minimum 5 gals per acre in CA)	Do not apply more than 4.4 lbs. (4.0 lb A/A) of		and harvest.
	BAYTHROID® 2 EC	Refer to the BAYTHROID® 2 EC approved label for use instructions.	* Stinkbugs and Cutworms: Use 0.83 lb. per acre of ACEPHATE 90 DF.	ACEPHATE 90 DF per acre per crop cycle. This includes all uses of ACEPHATE 90 DF in commercial seed-treatment, in-furrow spray, and foliar applications.		
	Bifenthrin 2 EC	Refer to the Bifenthrin 2 EC approved label for use instructions.				
	Lambda-Cyhalothrin 1 EC (Except CA)	Refer to the Lambda-Cyhalothrin 1 EC approved label for use instructions.				
	SCOUT® X-TRA (Except CA)	Refer to the SCOUT® X-TRA approved label for use instructions.				

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**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Keep pesticide in original container. Do not put concentrated or dilute product into food or drink containers. Store in a cool, dry place. Protect from excessive heat. Do not contaminate food or feedstuffs. Do not store or transport near feed or food.

**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**

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. The Directions for Use of this product reflect the opinion of experts based on field use and tests. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

United Phosphorus, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or United Phosphorus, Inc., and Buyer and User assume the risk of any such use. **UNITED PHOSPHORUS, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

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United Phosphorus, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by the duly authorized representative of United Phosphorus, Inc.

- ASANA® – Reg. TM of E.I. duPont de Nemours & Co., Inc. for esfenvalerate insecticide.
- BAYTHROID® – Reg. TM of Bayer Crop Protection for cyfluthrin synthetic pyrethroid.
- DANITOL® – Reg. TM of Sumitomo Chemical Company Ltd. for fenpropathrin insecticide-miticide.
- LORSBAN® -- Reg. TM of Dow Agro Sciences for chlorpyrifos insecticide.
- SCOUT® X-TRA – Reg. TM of Hoechst-Roussel Agri for tralomethrin pyrethroid insecticide.

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