

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.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear: long-sleeved shirt and long pants, 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 incorporate spills.



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 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, waterproof gloves, shoes plus socks and chemical resistant headgear for overhead exposure

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are **NOT WITHIN** the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, or greenhouses.

For other non-agricultural areas, do not enter treated areas without protective clothing until sprays have dried.

DIRECTIONS

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 use, applicator, and/or application advisor.

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

TABLE OF EQUIVALENTS

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

GENERAL INFORMATION

Do not use this product through any type of irrigation system

LANCER 90 SP 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 LANCER 90 SP through ingestion than by contact. LANCER 90 SP can be applied as hopper-box, in-furrow and foliar treatments in cotton. Application of LANCER 90 SP 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.

PREPARATION OF SPRAY SOLUTION

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 LANCER 90 SP has completely dissolved. LANCER 90 SP 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.

COTTON

GENERAL USE PRECAUTIONS:

- Do not use treated seed for food or feed purposes or process for oil.
- Do not feed gin trash to livestock.
- Do not allow animals to graze on treated areas.
- Do not apply more than 6 2/3 lbs. of LANCER 90 SP per acre per crop cycle. This limitation includes all methods of application; i.e. hopper-box, in-furrow, and foliar.

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

INSECTS	AMOUNT LANCER 90 SP PER ACRE	ADDITIONAL USE INSTRUCTIONS
Black (Greasy) Cutworm Cotton Aphids Thrips	2.5 to 3.25 oz.	<p>Add dry LANCER 90 SP to seed in the planter box to achieve an application rate of 2.5 to 3.25 oz. per acre.</p> <p>Even coverage of seed is required for acceptable insect control. Plants grown from improperly treated seed may not exhibit insect control. To obtain even coverage, fill planter box ½ full of seed, add ½ of required LANCER 90 SP and mix thoroughly. Add remainder of seed and LANCER 90 SP to the hopper box and thoroughly mix.</p> <p>Improved distribution of LANCER 90 SP on seed can be achieved by premixing both in a separate container and then transferring treated seed to hopper box.</p> <p>Use of LANCER 90 SP with an air planter is not recommended since loss of product will occur.</p>
USE PRECAUTIONS: <ul style="list-style-type: none"> • Do not use treated seed for food or feed purposes or process for oil. • LANCER 90 SP cotton seed hopper box treatment is not permitted in Arizona, California or the Black Lands of Texas. 		

COTTON IN-FURROW APPLICATION

INSECTS	AMOUNT LANCER 90 SP PER ACRE	ADDITIONAL USE INSTRUCTIONS
Aphids* Thrips Black (Greasy) Cutworm (Except CA) * Excluding Cotton Aphids in AZ & CA	0.55 to 1.1 lbs. NOTE: for the Blacklands of Texas use 1.1 lbs. per acre LANCER 90 SP	<p>Do not apply more than 6 2/3 lbs. of LANCER 90 SP per acre per crop cycle. This limitation includes all methods of application; i.e. hopper-box, in-furrow, and foliar.</p> <p>Apply LANCER 90 SP in 3 to 5 gals. of water per acre as an in-furrow spray at planting. LANCER 90 SP can be mixed with fungicides that are sprayed in-furrow for disease control.</p> <p>Flat-fan nozzles 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 nozzles may not provide a spray pattern that insures maximum spray deposition in the seed furrow, and should be avoided. 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>

COTTON (Continued)

FOLIAR APPLICATION

INSECTS	AMOUNT LANCER 90 SP PER ACRE	ADDITIONAL USE INSTRUCTIONS	DAYS TO HARVEST
Thrips	3.2 oz.	<p>Do not apply more than 6 ²/₃ lbs. of LANCER 90 SP per acre per crop cycle. This limitation includes all methods of application; i.e. hopper-box, in-furrow, and foliar.</p> <p>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.</p> <p>Apply when eggs or insects first appear. Repeat as necessary to maintain control.</p> <p>Lygus – Use higher rate for lygus adults that have migrated into cotton.</p> <p>Cotton Aphid – This insect may develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current control recommendations.</p> <p>Amyworms & Cabbage Looper – Apply when eggs appear and repeat at 3 to 7 day spray intervals.</p> <p>Bollworm and Tobacco Budworm – Early season light infestation use 0.5 lb. per acre. Mid and late season moderate to severe infestations use 0.8 to 1.0 lbs. per acre. Apply when eggs appear and repeat at 3 to 7 day spray interval.</p> <p>Adult/Larvae: 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 peak activity.</p> <p>Emerging Larvae: 0.25 to 0.5 pounds per acre when larvae first appear</p> <p>DEADHATCH®: Control of emerging larvae by consumption of treated egg casings.</p> <p>Pink Bollworm – Apply when insects appear and repeat at a 5 to 7 day spray interval.</p>	21
Plant Bugs (Lygus)	0.25 to 1.0 lbs.		
	0.5 to 1.0 lbs. (CA and AZ)		
Fleahopper	0.25 lb.		
Cotton Aphid (excluding AZ and CA)	0.5 to 1.0 lbs.		
Whitefly (excluding Sweetpotato /Silverleaf Whitefly)	0.5 to 1.0 lbs.		
Amyworms (excluding Beet Armyworm) Cabbage Looper	1.0 lbs.		
Bollworm Tobacco Budworm Adults Larvae Eggs (DEADHATCH®)	0.5 to 1.0 lbs. (East of Rockies) 1.0 lbs. (CA & AZ) Emerging Larvae 0.25 to 0.5 lbs.		
Stinkbugs	0.8 lb.		
Pink Bollworm (AZ & CA)	1.0 lbs.		

COTTON (Continued)

FOLIAR APPLICATION (Continued)

INSECTS	AMOUNT LANCER 90 SP PER ACRE	ADDITIONAL USE INSTRUCTIONS	DAYS TO HARVEST
Cutworms	0.8 lb.	<p>Cutworms – Ground application is recommended.</p> <p>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.</p> <p>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>Apply when insects first appear or damage is first noted and repeat application as necessary to maintain control. Do not apply more than 6 ²/₃ lbs. of LANCER 90 SP per acre per crop cycle. This limitation includes all methods of application; i.e. hopper-box, in-furrow, and foliar.</p>	21

COTTON TANK MIXES

GENERAL USE PRECAUTIONS:

Do not feed gin trash or treated forage to livestock.

Do not allow livestock to graze on treated areas.

Do not apply more than 6 ²/₃ lbs. of LANCER 90 SP per acre per crop cycle. This limitation includes all methods of application; i.e. hopper-box, in-furrow, and foliar.

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 organo-phosphates, carbamates, pyrethroids or insect growth regulators. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternative insecticides.

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COTTON TANK MIXES (Continued)

INSECTS	AMOUNT LANCER 90 SP + LORSBAN® 4E PER ACRE	ADDITIONAL USE INSTRUCTIONS	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. LANCER 90 SP + 1 to 2 pts. LORSBAN® 4E	<p>User should comply with all applicable directions, restrictions and precautions on the EPA registered label for LORSBAN® 4 E.</p> <p>Cutworms: Use 0.8 lb. per acre of LANCER 90 SP.</p> <p>By Ground: Ground application is recommended. Apply in 10 to 25 gals. of spray per acre.</p> <p>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>By Air: 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>Apply when insects first appear or when damage is first noted and repeat application as necessary to maintain control.</p> <p>Do not apply more than 6 ²/₃ lbs. of LANCER 90 SP per acre per crop cycle. This limitation includes all methods of application; i.e. hopper-box, in-furrow, and foliar.</p>	21

INSECTS	AMOUNT LANCER + DANITOL® 2.4 EC PER ACRE	ADDITIONAL USE INSTRUCTIONS	DAYS TO HARVEST
Sweetpotato/ Silverleaf Whitefly	0.5 to 1.0 lb. LANCER 90 SP + 10 ² / ₃ to 16 fl. oz. DANITOL® 2.4 EC	<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> <p>Apply when insects first appear or when damage is first noted.</p> <p>Do not apply more than 6 ²/₃ lbs. of LANCER 90 SP per acre per crop cycle. This limitation includes all methods of application; i.e. hopper-box, in-furrow, and foliar.</p>	21

COTTON TANK MIXES WITH PYRETHROIDS

GENERAL USE PRECAUTIONS:

Do not feed gin trash or treated forage to livestock.
 Do not allow livestock to graze on treated areas.
 Do not apply more than 6 2/3 lbs. of LANCER 90 SP per acre per crop cycle. This limitation includes all methods of application; i.e. hopper-box, in-furrow, and foliar.

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 organo-phosphates, carbamates, pyrethroids or insect growth regulators. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternative insecticides.

INSECTS	LANCER 90 SP AND TANK MIX PARTNER	AMOUNT OF LANCER 90 SP + TANK MIX PARTNER PER ACRE	ADDITIONAL USE INSTRUCTIONS	DAYS TO HARVEST
Aphids Bollworm Cabbage Looper Cotton Leaf Perforator Cutworms* Fall Armyworm Fleahoppers Pink Bollworm (AZ & CA) Plantbugs Stinkbugs Sweetpotato/ Silverleaf Whitefly Thrips Tobacco Budworm Whitefly	LANCER 90 SP + one of the following	0.5 to 1.0 lbs. per acre + one of the following	Do not apply more than 6 2/3 lbs. of LANCER 90 SP per acre per crop cycle. This limitation includes all methods of application; i.e. hopper-box, in-furrow, and foliar. 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. Begin applications when eggs or insects appear and apply as needed to maintain control. Stinkbugs: Use 0.8 lb. per acre of LANCER 90 SP. * Cutworms: Use 0.8 lb. per acre of LANCER 90 SP By Ground: Ground application is recommended. Control is most effective when ground applications are made in the evenings and sprays are directed toward the base and lower portion of plant. By Air: Aerial applications are less effective, but may be used. Apply when eggs or insects first appear or damage is first noted. Repeat application as necessary to maintain control.	21
	AMMO® 2.5 EC*	Refer to the AMMO® 2.5 EC approved label for use instructions.		
	ASANA® XL*	Refer to the ASANA® XL approved label for use instructions.		
	BAYTHROID® 2 EC	Refer to the BAYTHROID® 2 EC approved label for use instructions.		
	CAPTURE® 2 EC	Refer to the CAPTURE® 2 EC approved label for use instructions.		
	KARATE® 1 EC (Except CA)	Refer to the KARATE® 1 EC approved label for use instructions.		
	SCOUT® X-TRA (Except CA)	Refer to the SCOUT® X-TRA approved label for use instructions.		

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 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

LIMITED WARRANTY:

1. United Phosphorus, Inc. 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. United Phosphorus does not make nor authorizes any agent or representative to make any other warranty, guarantee or representations, 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 United Phosphorus' 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 use state on the labeling and even though label directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by United Phosphorus 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.

- AMMO® – Reg. TM of FMC Corporation for cypermethrin insecticide.
- 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.
- CAPTURE® – Reg. TM of FMC Corporation for bifenthrin insecticide-miticide.
- DANITOL® – Reg. TM of Valent USA Corporation for fenpropathrin insecticide-miticide.
- KARATE® – Reg. TM of Syngenta Crop Protection, Inc. for lambda-cyhalothrin insecticide.
- LORSBAN® – Reg. TM of Dow Agro Sciences for chlorpyrifos insecticide.
- SCOUT® – Reg. TM of Aventis Crop Science for tralomethrin pyrethroid insecticide.
- TAME® – Reg. TM of Valent USA Corporation for fenpropathrin insecticide.

Last Approved by EPA 5/11/00
 REVISED: 3-25-2002 for First Aid, Bee Statement;
 Revised 8-22-02 for Precautionary Statements, Bee Statement. NOT EPA APPROVED