

34704-863

06/19/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
CHEMICAL SAFETY
AND POLLUTION PREVENTION

Premjit Halarnkar, Ph.D., MPA
Loveland Products
PO Box 1286
Greeley, CO 80632

JUN 19 2013

Subject: Addition of succulent green bean use restrictions and accompanying language
Acephate 75WSP Insecticide
EPA Reg. No.: 34704-863
Submission date: March 29, 2013
Decision #: 477705

Dear Dr. Halarnkar:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records. Please submit one copy of your final printed labeling before you release the product for shipment. If you have any questions regarding this label, please contact Dr. Jennifer Urbanski at 703-347-0156 or urbanski.jennifer@epa.gov.

Sincerely yours,

A handwritten signature in black ink that reads "Venus Eagle".

Venus Eagle
Product Manager (01)
Insecticide-Rodenticide Branch
Registration Division (7505P)

Enclosure- Stamped Label



ACEPHATE 75 WSP INSECTICIDE

INSECTICIDE IN A WATER-SOLUBLE BAG

ACTIVE INGREDIENT	BY WT
Acephate (O,S-Dimethyl acetylphosphoramidothioate)	75%
OTHER INGREDIENTS	25%
	TOTAL 100%

KEEP OUT OF REACH OF CHILDREN CAUTION

See Below for Additional Precautionary Statements

FIRST AID Acephate is an organophosphate, cholinesterase inhibitor.	
If swallowed:	<ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
<p>FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. NOTES TO PHYSICIAN: This material contains a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure but decisions regarding treatment will usually need to be made before test results are available. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (PROTOPAM) is also antidotal and may be used in conjunction with atropine but should not be used alone.</p>	

ACCEPTED

JUN 19 2013

Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for the
pesticide registered under:

EPA REG. NO. 34704-863

EPA EST. NO. 34704-MS-001

NET WEIGHT 5.0 LB (2.26 KG)

EXP 03/13 RED

EPA. Reg. No: 34704-863

**ACEPHATE 75 WSP
EPA REG. NO. 34704-863**

**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. Do not allow children or pets to come into contact with treated areas until sprays have dried.

Personal Protective Equipment (PPE):

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

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants,
- Socks and shoes,
- Chemical-resistant gloves, such as barrier laminate or viton, for all mixers and loaders and for applicators using hand held application equipment.

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. See engineering controls for additional requirements.

Engineering Controls

Water-soluble packets when used correctly qualify as a closed mixing/loading system under the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(4)].

Mixers and loaders using water-soluble packets must: Wear the personal protective equipment required above for mixers/loaders, and be provided and must have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown the following PPE:

- Coveralls,
- Chemical-resistant footwear and a NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter.

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 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.

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.

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.

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Failure to Follow the Directions for Use and Use Restrictions 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.

Not for indoor residential use.

Equipment Restrictions: Do not apply using low pressure handwand equipment.

Note: This product is sold by weight and package is full when packed, but due to product's powdery nature, settling is likely to occur.

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 during the 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, and
- Shoes plus socks.

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, nurseries or greenhouses.

Do not enter or allow others to enter until sprays have dried.

TANK MIXES

Notice: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of 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. The most restrictive labeling applies when using a tank mix.

Tank Mixing :

- This product may be tank mixed with registered cotton herbicides under the following conditions:
 - The tank mix partners do not prohibit tank mixes;
 - The most restrictive of label limitations and precautions are observed; and,
 - No label dosage rates are exceeded.
- To determine physical compatibility of potential tank-mix partners with Acephate 75 WSP:
 1. In a pesticide-safe container, pour the specified proportions of each chemical with the same proportion of water as will be present in the chemical supply tank. NOTE: When mixing wettable powder or dry flowable formulations, add and disperse these first, then add liquid pesticides.
 2. Mix thoroughly and allow to stand for five minutes.
 3. If the combination remains mixed, or can be readily remixed, the mixture is considered physically compatible.

CHEMIGATION

Apply to Cranberries only by sprinkler irrigation systems. Do not apply by chemigation to any other crop, or this crop using any other type of irrigation system.

Spray Drift Management

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product.

- All aerial, ground and air-assisted/airblast application equipment must be properly maintained and calibrated using water as carrier. Do not apply this product as an ultralow (ULV) spray except as specified in the directions for use on wasteland (non-crop areas), or in any carrier other than water.
- Use the largest droplet size consistent with good pest control. Small droplets are more prone to spray drift and can be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.

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- Do not apply at wind speeds greater than 10 mph at the application site.
- Apply as close to target plants as practical to obtain a good spray pattern for adequate coverage.
- For aerial applications, do not apply at heights greater than 10 feet (consistent with flight safety).
- For airblast applications, direct spray above foliage and turn off outward pointing nozzles at row ends and outer rows.
- For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum boom length should be used and must not exceed 75% of wing span or rotor diameter.
- For ground applications, do not apply at heights greater than 4 feet.

WATER SOLUBLE PACKAGING

(Agricultural products will incorporate the term "packets")
(PCO applied products will incorporate the term "pouches")

Multiple Packaging

This bag contains multiple water-soluble packets (pouches) of this product. Do not handle the packets (pouches) with wet gloves or allow the packets (pouches) to become wet prior to addition to spray tank. Do not break open packets (pouches). Refer to the Tables of Equivalents to calculate the number of packets to use. If all packets (pouches) are not used, close and reseal outer container to protect remaining packet(s) (pouch[es]).

Single Packaging

This bag contains one water-soluble packet (pouch) of this product. Do not handle the packet (pouch) with wet gloves or allow the packet (pouch) to become wet prior to addition to spray tank. Do not break open packets (pouches). Refer to the Tables of Equivalents to calculate the number of packets (pouches) to use. Open outer bag by pulling perforated tear strip and drop the unopened inner packet (pouch) of this product into spray tank.

Preparation Of Spray Solution

To prepare spray solution, drop the unopened packet(s) (pouch[es]) of this product into a spray tank containing at least one-half the total quantity of water required. Direct water at the floating packet(s) (pouch[es]) and continue to add 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 after the packet(s) (pouch[es]) and its contents have completely dissolved.** Water soluble packet(s) (pouch[es]) 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.

TABLES OF EQUIVALENTS

Amount of Acephate 75 WSP	1.33 lb	1.0 lb	0.66 lb	0.33 lb	4.0 oz	2.0 oz
Amount Active Contained	1.0 lb	0.75 lb	0.50 lb	0.25 lb	0.20 lb	0.10 lb

USE INFORMATION

This product is an insecticide for control of pests on the specified agricultural crops and in certain non-crop (field borders, fencerows, roadsides, ditchbanks, borrow pits) areas. The active ingredient in this product 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 this product through ingestion than by contact. Apply only as directed.

USE DIRECTIONS

BEANS AND LIMA BEANS – DRY AND SUCCULENT FORMS

Table 1. Beans and Lima Beans – Dry and Succulent Forms Excluding Succulent Green Beans

Application Method	Pests Controlled	Rates of Acephate 75 WSP/Acre	Use Instructions	Days to Harvest
Foliar By Ground: 20.0 to 100 gal/A of spray By Air: Minimum of 2.0 gal/A spray	Fleahoppers Grasshoppers	0.33 to 0.66 lb	Apply when eggs or insects first appear. Repeat at 3- to 10-day spray intervals as necessary to maintain control.* Use the higher specified rate within the rate range for severe insect infestations. Use on succulent green beans as a food crop is prohibited (includes string beans, snap beans, and wax beans). RESTRICTIONS FOR SUCCULENT GREEN BEANS GROWN FOR SEED Do not feed crop residues to livestock or allow animals to graze treated areas. Do not apply to succulent beans grown for fresh market or processing. No portion of the succulent bean plant may be used or distributed for food or feed purposes. Seeds grown from succulent beans shall bear a tag or container label which forbids use of the seed for human consumption or animal feed. Seeds grown from succulent beans may not be distributed for human consumption or animal feed.	14 (dry beans)
	Aphids (excluding Black bean aphid) Bean leaf beetle Bean leafroller Cabbage looper Cutworms Green cloverworm Leafhoppers Mexican bean beetle Plantbugs (Lygus) Soybean looper Thrips Whitefly (except Sweet potato or Silverleaf whitefly)	0.66 to 1.33 lb		1 (lima beans - succulent form)
	Armyworms (excluding Beet armyworm) Corn earworm European corn borer	1.0 to 1.33 lb		

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Use Restrictions: Do not feed treated vines to livestock. *Minimum 3-day application interval for up to 0.5 pound active ingredient per acre and 7 days for rates greater than 0.5 pound active ingredient per acre. *Do not apply more than 2.66 pounds per acre (2.0 pounds active ingredient) per season.

CELERY

Table 2. Celery

Application Method	Pests Controlled	Rates of Acephate 75 WSP/Acre	Use Instructions	Days to Harvest
Foliar By Ground: 50.0 to 100 gal/A of spray By Air: Minimum of 5.0 gal/A of spray	Green peach aphid	0.66 to 1.33 lb	Apply when eggs or insects first appear. Repeat at 7- to 10-day intervals as necessary to maintain control.*	21
	Cabbage looper	1.33 lb		
	Fall armyworms			

Use Restrictions: *Do not apply more than 2.66 pounds per acre (2.0 pounds active ingredient) per season. Minimum 3-day application interval for up to 0.5 pound active ingredient per acre and 7 days for rates greater than 0.5 pound active ingredient per acre. All celery must be trimmed (tops removed) before shipment for use. Do not use trimmed tops for food or feed.

COLE CROPS

Brussels Sprouts & Cauliflower

Table 3. Cole Crops – Brussels Sprouts & Cauliflower

Application Method	Pests Controlled	Rates of Acephate 75 WSP/Acre	Use Instructions	Days to Harvest
Foliar By Ground: 25.0 to 150 gal/A of spray By Air: Minimum of 5.0 gal/A of spray	Green peach aphid	0.66 to 1.33 lb	Use the higher specified rate within the rate range when heavy infestations of aphids are present. Apply when eggs or insects first appear. Repeat application as necessary to maintain control.* Diamondback moth larvae -This insect has demonstrated an ability to develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current recommended control for this insect.	14
	Cabbage looper	1.33 lb		
	Diamondback moth larvae Imported cabbage worm			

Use Restrictions: *Do not apply more than 2.66 pounds per acre (2.0 pounds active ingredient) per season to Brussels sprouts and Cauliflower. Minimum 3-day application interval for up to 0.5 pound active ingredient per acre and 7 days for rates greater than 0.5 pound active ingredient per acre. Do not feed trimmings to livestock or allow animals to graze in treated areas.

COTTON

Table 4. Cotton

Application Method	Pests Controlled	Rates of Acephate 75 WSP/Acre	Use Instructions	Days to Harvest
In Furrow (At-planting) By Ground: 3.0 to 5.0 gal/A of spray	Aphids* Black (Greasy) cutworm (except CA) Thrips (including Western flower thrips) *excluding Cotton aphids in AZ & CA	0.66 to 1.33 lb Note: For the Blacklands of TX use 1.33 lb/A Acephate 75 WSP	Use flat-fan nozzles for in-furrow application. Align nozzles to ensure good spray deposition into the seed furrow. Cone type nozzles are not recommended since unacceptable spray deposition may occur. Securely fasten spray-system tubing to furrow opener and check frequently to ensure proper positioning and operation. This product can be mixed with fungicides that are sprayed in-furrow for disease control.	

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Table 4. Cotton cont'd.:

Application Method	Pests Controlled	Rates of Acephate 75 WSP/Acre	Use Instructions	Days to Harvest
Foliar By Ground: 10.0 to 25.0 gal/A of spray By Air: 3.0 to 10.0 gal/A of spray (minimum of 5.0 gal/A in AZ & CA) Aerial application is limited to 1.0 lb A/A for use in CA & AZ, and 0.75 lb A/A for other states.	Thrips (Including Western flower thrips)	0.33 lb	Apply when eggs or insects first appear. Repeat application as necessary to maintain control.**	21
	Plantbugs (Lygus)	0.33 to 1.33 lb 1.0 to 1.33 lb (AZ & CA)	Apply when eggs or insects first appear. Use the highest specified rate within the rate range for Lygus adults that have migrated into cotton. Repeat application as necessary to maintain control.**	
	Fleahopper	0.33 lb	Apply when eggs or insects first appear. Repeat application as necessary to maintain control.**	
	Cotton aphids (excluding AZ and CA)	0.66 to 1.33 lb	Apply when eggs or insects first appear. Repeat application as necessary to maintain control.** This insect may develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current control recommendations. Repeat application as necessary to maintain control.**	
	Whitefly (excluding Sweet potato, Whitefly / Silverleaf whitefly)	0.66 to 1.33 lb	Repeat application as necessary to maintain control.**	
	Armyworms (excluding Beet armyworm) Cabbage looper	1.33 lb	Apply when eggs appear and repeat at 7-day spray intervals.**	
	Bollworm Tobacco budworm adults / larvae Eggs/Deadhatch®	0.66 to 1.33 lb 1.33 lb (AZ & CA)	Early Season: Use 0.66 lb/A for light infestation. Mid and Late Season: Use 1.0 to 1.33 lb/A for moderate to severe infestations. Apply when eggs appear and repeat at 7-day spray intervals.** Moths of Budworm larvae are controlled by direct contact with spray. Moth kill is most likely to occur when late evening applications are made. Deadhatch: Control of emerging larvae by consumption of treated egg casings. Apply when eggs appear and repeat at 7-day intervals.**	
	Stinkbugs	1.0 lb	Apply when insects appear and repeat at 7-day intervals.**	
	Pink bollworm (AZ & CA)	1.33 lb	Ground application is recommended. Aerial applications are less effective, but may be used. 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.**	
	Cutworms	1.0 lb	Apply when insects first appear or damage is first noted and repeat application as necessary to maintain control.**	

Use Restrictions

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 4.0 pounds active ingredient per acre per season. This includes the use of Payload® 15 G as an in-furrow at planting treatment, all foliar spray, liquid in-furrow application. Minimum 3-day application interval for up to 0.5 pound active ingredient per acre and 7 days for rates greater than 0.5 pound active ingredient per acre.

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COTTON TANK MIXES

Table 5. Cotton Tank Mixes

Application Method	Pests Controlled	Acephate 75 WSP and Tank Mix Partner	Amount of Acephate 75 WSP + Tank Mix Partner/Acre	Use Instructions	Days to Harvest
Foliar By Ground: 10.0 to 25.0 gal/A spray By Air: 3.0 to 10.0 gal/A of spray (minimum 5.0 gal/A in CA) Aerial application is limited to 1.0 lb AI/A for use in CA & AZ, and 0.75 lb AI/A for other states.	Sweet potato whitefly (Silverleaf whitefly)	Acephate 75 WSP + Danitol® 2.4 EC Spray	0.66 lb + 10.66 to 16.0 fl oz	User must comply with all applicable directions and restrictions on the EPA registered label for Danitol 2.4 EC Spray.	21
	Armyworm (excluding Beet armyworm) Bollworm Cabbage looper Cotton aphid Cutworms Fleahopper Grasshoppers Pink bollworm Plantbugs (Lygus, Mirids) Salt marsh caterpillar Thrips (including Western flower thrips) Tobacco budworm Whitefly (excluding Sweet potato / Silverleaf whitefly)	Acephate 75 WSP + Lorsban® 4E	0.33 to 1.33 lb + 1.0 to 2.0 pt	User must comply with all applicable directions and restrictions on the EPA for registered label Lorsban 4E. Cutworms: Use of 1.0 lb/A Acephate 75 WSP By Ground: Ground application is recommended. Control is most effective when ground application is 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 insects first appear or when damage is first noted and repeat application as necessary to maintain control.*	

Use Restrictions

Do not feed gin trash or treated forage to livestock.

Do not allow livestock to graze on treated areas.

*Do not apply more than 4.0 pounds active ingredient per acre per season. This includes the use of Payload 15 Granular as an in-furrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment uses. Minimum 3-day application interval for up to 0.5 pound active ingredient per acre and 7 days for rates greater than 0.5 pound active ingredient per acre.

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

Tank Mixing:

- This product may be tank mixed with registered cotton herbicides under the following conditions:
 - The tank mix partners do not prohibit tank mixes;
 - The most restrictive of label limitations and use restrictions are observed; and,
 - No label dosage rates are exceeded.
- To determine physical compatibility of potential tank-mix partners with Acephate 75 WSP:
 1. In a pesticide-safe container, pour the specified proportions of each chemical with the same proportion of water as will be present in the chemical supply tank. **NOTE:** When mixing wettable powder or dry flowable formulations, add and disperse these first, then add liquid pesticides.
 2. Mix thoroughly and allow to stand for five minutes.
 3. If the combination remains mixed, or can be readily remixed, the mixture is considered physically compatible.

Resistance-Management

Cotton pest control programs, especially those for control of 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.

**ACEPHATE 75 WSP
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COTTON TANK MIXES WITH PYRETHROIDS

Table 6. Cotton Tank Mixes with Pyrethroids

Application Method	Pests Controlled	Acephate 75 WSP and Tank Mix Partner	Amount of Acephate 75 WSP + Tank Mix Partner/Acre	Use Instructions	Days to Harvest
Foliar By Ground: 10.0 to 25.0 gal/A spray By Air: 3.0 to 5.0 gal/A spray (minimum 5.0 gal/A in CA). See Use Instructions for Cutworms. Aerial application is limited to 1.0 lb AI/A for use in CA & AZ, and 0.75 lb AI/A for other states.	Aphids Bollworm Cabbage looper Cotton leaf perforator Cutworms Fall armyworm Fleahoppers Pink bollworm (AZ & CA) Plantbugs Stinkbugs Sweet potato / Silverleaf whitefly Thrips (including Western flower thrips) Tobacco budworm Whitefly	Acephate 75 WSP + one of the following:	0.66 lb to 1.33 lb + one of the following:	Apply when eggs or insects first appear. Repeat application as necessary to maintain control.** Stinkbugs: Use 1.0 lb/A of Acephate 75 WSP. *Cutworms: Use 1.0 lb/A of Acephate 75 WSP. By Ground: Ground application is recommended. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of the plant. By Air: 3.0 to 10.0 gal/A spray (minimum 5.0 gal/A in CA) 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®	Refer to the Baythroid approved label for use instructions.		
		Capture® 2 EC	Refer to the Capture 2 EC approved label for use instructions.		
		Karate®E (except CA)	Refer to the Karate approved label for use instructions.		
					28

Use Restrictions

Do not feed gin trash or treated forage to livestock.
 Do not allow livestock to graze on treated areas.

**Do not apply more than 4.0 pounds per acre per season. This includes the use of Payload 15 G as an in-furrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment uses. Minimum 3-day application interval for up to 0.5 pound active ingredient per acre and 7 days for rates greater than 0.5 pound active ingredient per acre.

Use synthetic pyrethroids 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. Follow all restrictions which 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 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.

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CRANBERRY

Table 7. Cranberry

Application Method	Pests Controlled	Rates of Acephate 75 WSP/Acre	Use Instructions	Days to Harvest
Foliar By Ground or Sprinkler: Sufficient water to give thorough coverage. By Air: Minimum of 2.0 gal/A of spray	Cranberry blossom worm Cranberry cutworm False armyworm Fireworms Gypsy moth Spanworms Sparganothis	1.33 lb	This product may only be applied through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, travelers, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.	90
Use Restrictions: Limit to 1 application per growing season. Do not apply more than 1.33 pound per acre (1.0 pound active ingredient) per season. Do not apply from start of bloom until all berries set.				

Sprinkler Irrigation Application To Cranberries: Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Solid Set System: Apply specified dosage for the entire length of the irrigation period or for a 30- to 60-minute period at the end of a regular irrigation set or as a 30- to 60-minute injection as a separate application not associated with a regular irrigation. Allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining pesticide, a dye indicator may be injected into the lines to mark the end of the application period. See Note.

Center Pivot Systems: Inject the specified dosage per acre continuously for one complete revolution of the system.

Constant agitation must be maintained in the chemical supply tank during the entire period of insecticide application. Inject the product with a positive displacement pump into the main line ahead of a right turn to ensure adequate mixing.

Application of more than label-specified quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness.

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HEAD LETTUCE – CRISPHEAD TYPE ONLY

Table 8. Head Lettuce (Crisphead Type Only)

Application Method	Pests Controlled	Rates of Acephate 75 WSP/Acre	Use Instructions	Days to Harvest
Foliar By Ground: 10.0 to 60.0 gal/A of spray broadcast By Air: Minimum of 5.0 gal/A of spray	Aster leafhopper Green peach aphid	0.66 to 1.33 lb	Repeat application as necessary to maintain control.*	21 Spring, summer and early fall crops in all areas, winter crops in FL and TX, late Fall crops in AZ and winter crops in AZ and CA.
	Armyworms (excluding Beet armyworm) Cabbage looper	1.33 lb		

Use Restrictions:

*Do not apply more than 2.66 pounds per acre (2.0 pounds active ingredient) per season. Minimum 3-day application interval for up to 0.5 pound active ingredient per acre and 7 days for rates greater than 0.5 pound active ingredient per acre.

Do not feed trimming to livestock or allow animals to graze on treated areas.

AZ & CA, Desert Areas: Do not apply after first head begins to form in crops which germinate from mid-September through November.

MINT

Peppermint And Spearmint

Table 9. Mint – Peppermint and Spearmint

Application Method	Pests Controlled	Rates of Acephate 75 WSP/Acre	Use Instructions	Days to Harvest
Foliar By Ground: 20.0 to 100 gal/A of spray By Air: 5.0 to 10.0 gal/A of spray	Alfalfa looper Aphids Cutworms	1.33 lb (21.25 oz)	Apply when eggs or insects first appear. Make one repeat application, if necessary, to maintain control.*	14
Foliar By Ground: 40.0 to 100 gal/A of spray	Strawberry root weevil adult Black vine weevil adult	1.33 lb (21.25 oz)	Strawberry root and Black vine weevil: For control, apply in water in a minimum of 40.0 gal spray/A by ground. Good spray coverage and canopy spray penetration is critical for control. Increase spray volume and pressure with tall or dense mint canopy. Apply after adult emergence is complete but prior to egg laying. Apply at dusk or during the night on a warm still evening. Two applications 7 days apart may be necessary to reduce heavy infestations.	14

Use Restrictions For All Application Methods:

*Do not apply more than 2.66 pounds per acre (2.0 pounds active ingredient) per season. Minimum 3-day application interval for up to 0.5 pound active ingredient per acre and 7 days for rates greater than 0.5 pound active ingredient per acre.

Do not graze treated areas.

NON-CROP AREAS

FIELD BORDERS, FENCEROWS, ROADSIDES, DITCHBANKS, BORROW PITS

Table 11. Non-Crop Areas – Field Borders, Fencerows, Roadsides, Ditchbanks, Borrow Pits

Application Method	Pests Controlled	Rates of Acephate 75 WSP/Acre	Use Instructions
Foliar By Ground: 10.0 to 20.0 gal/A of spray By Air: 1.0 to 5.0 gal/A of spray (minimum of 5.0 gal/A in CA)	Grasshoppers	0.33 lb	For early to mid-season application. Use the higher volumes when spraying dense foliage. An approved drift retardant may be added to aid in controlling drift and reducing evaporation of aerial sprays.

Do not graze or feed vegetation cut from treated areas.

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PEANUTS

Table 13. Peanuts

Application Method	Pests Controlled	Rates of Acephate 75 WSP/Acre	Use Instructions	Days to Harvest
Foliar By Ground: 10.0 to 50.0 gal/A of spray By Air: 5.0 to 10.0 gal/A of spray	Grasshoppers	0.33 to 0.66 lb	Apply when eggs or insects first appear. Repeat application as necessary to maintain control.* This product can be tank mixed with registered at-cracking and early post-emergence peanut herbicides, provided those products do not prohibit tank mixes, provided the most restrictive of label limitations and precautions are followed, and provided no label dosage rates are exceeded. To determine physical compatibility, pour the recommended proportions of each chemical with the same proportion of water as will be present in the chemical supply tank into a suitable container, mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is considered physically compatible. When mixing wettable powder or dry flowable formulations, add and disperse these first, then add liquid pesticides. Conduct another compatibility test at concentrations which will be present in the irrigation lines. If there is any separation, which cannot be remixed readily, Loveland Products, Inc. recommends that the combination not be used. Combinations should be kept agitated and should be applied immediately. Do not allow combinations to set for prolonged periods in the chemical supply tank or irrigation lines.	14 (of digging)
	Thrips	0.5 to 1.0 lb		
	Corn earworm	1.0 to 1.33 lb		
	Fall armyworm			
	Leafhoppers			
Loopers Velvetbean caterpillar				

Use Restrictions:

Do not feed treated forage or hay to livestock.
Do not allow animals to graze on treated areas.

*Do not apply more than 4.0 pounds active ingredient (5.33 pounds formulated product) per acre per crop cycle. This includes the use of this product on peanuts as a foliar spray in addition to the peanut planter box seed treatment use. Minimum 3-day application interval for up to 0.5 pound active ingredient per acre and 7 days for rates greater than 0.5 pound active ingredient per acre.

PEPPERS

Bell

Table 14. Peppers – Bell

Application Method	Pests Controlled	Rates of Acephate 75 WSP/Acre	Use Instructions	Days to Harvest
Foliar By Ground: 25.0 to 150 of gal/A spray By Air: Minimum of 3.0 gal/A of spray (minimum of 5.0 gal/A in CA)	Grasshoppers	0.33 to 0.66 lb	Apply when eggs or insects first appear. Repeat as necessary to maintain insect-pest populations below economically damaging numbers.*	7
	Cabbage looper	0.66 to 1.33 lb		
	Green peach aphid			
	Tobacco hornworm	1.0 to 1.33 lb		
European corn borer				

Use Restrictions:

*Do not apply more than 2.66 pounds per acre (2.0 pounds active ingredient) per season. Minimum 3-day application interval for up to 0.5 pound active ingredient per acre and 7 days for rates greater than 0.5 pound active ingredient per acre.

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Non-Bell

For Use in Midwestern, Eastern States (AL, AR, CT, DE, DC, FL, GA, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, NE, NH, NJ, NY, NC, ND, OH, OK, PA, RI, SC, SD, TN, TX, VT, VA, WV, WI) and Puerto Rico Only.

Table 15. Peppers – Non-Bell

Application Method	Pests Controlled	Rates of Acephate 75 WSP/Acre	Use Instructions	Days to Harvest
Foliar By Ground: 40.0 to 150 gal/A of spray	Aphids	0.66 lb	Repeat at 7- to 10-day spray intervals as necessary.*	7

Use Restrictions:

*Do not apply more than 1.33 pounds per acre (1.0 pound active ingredient) per season. Minimum 3-day application interval for up to 0.5 pound active ingredient per acre and 7 days for rates greater than 0.5 pound active ingredient per acre.

TOBACCO

Table 16. Tobacco

Use Restrictions

*Do not apply more than 5.33 pounds per acre (4.0 pounds active ingredient) per season. This includes the use of this product in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications. Minimum 3-day application interval for up to 0.5 pound active ingredient per acre and 7 days for rates greater than 0.5 pound active ingredient per acre.

Application Method	Pests Controlled	Rates of Acephate 75 WSP/Acre	Use Instructions	Days to Harvest
Floatbed Foliage: Apply at the equivalent of 1.0 tblsp in 3.0 gal water/every 1000 sq ft of bed.	Cutworm Flea beetle Green peach aphid Tobacco aphid	1.0 lb	Apply evenly to ensure thorough coverage. Note: Floatbed water should be disposed of in the transplanted field as transplanter water or foliar spray.	
Plant Bed Foliage: Apply at the equivalent of 1.0 tblsp in 1.0 gal water/every 1000 sq ft of bed.	Cutworm Flea beetle Green peach aphid Tobacco aphid	1.0 lb	Apply evenly to ensure thorough coverage.	
Transplant Apply in a minimum of 100 gal of transplant water/A.	Cutworm Flea beetle Green peach aphid Potato tuberworm Tobacco aphid Tobacco thrips	1.0 lb	Provides control for approximately 3 to 4 weeks after transplanting. For control late in the season, apply foliar sprays of this product. Transplant water applications should be made using mechanical transplant equipment only. Using such equipment, the insecticide/water mixture is mechanically applied directly into the soil along with the transplanted plants.	

Use Restrictions:

Do not apply more than 1.0 pound of this product per acre as a transplant-water application as some phytotoxicity may occur.

Foliar By Ground: 10.0 to 50.0 gal/A of spray By Air: Minimum of 3.0 gal/A of spray	Grasshoppers	0.33 to 0.66 lb	Repeat on a 3- to 7-day spray schedule or as necessary.*	3
	Flea beetle	0.66 lb		
	Green peach aphid Hornworm Tobacco thrips	0.66 to 1.0 lb		
	Stinkbugs Tobacco aphid Vegetable weevils	1.0 lb		
Soil Mound Treatment Drench Method	Budworm Cabbage looper Cutworm Japanese beetle	1.0 lb	Apply 1.0 gal of mix to each mound area by sprinkling the mound until it is wet and treat a 4 ft diameter circle around the mound.	3
	Ants (including Imported fire ants and Harvester ants) (excluding Carpenter and Pharaoh ants)	0.33 lb/26.6 gal water		

Use Restrictions:

Treat a maximum of 13 mounds per acre.

Do not treat more than once per season.

Apply in the early morning or late afternoon, when ants are most active, for best results.

Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.

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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 concentrate 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: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration. Do not burn.
For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300.

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- Eggs/Deadhatch is a registered trademark of Valent U.S.A. Corporation.
- Karate is a registered trademark of a Syngenta Group Company for lambda-cyhalothrin insecticide.
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