

19713-400

4/15/2010

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

APR 15 2010

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Ms. Luz G. Chan  
Drexel Chemical Company  
P.O. Box 13327  
Memphis, TN 38113-0327

Subject: Updated Container Disposal and Warranty Statement

Dear Ms. Chan:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 and 2007-4 dated April 1, 2010 for:

**EPA Registration 19713-400**

**Drexel Acephate 75 WSP**

The Registration Division (RD) has conducted a review of this request for applicability under PRN 98-10 and 2007-4 and finds that the label change(s) requested falls within the scope of PRN-98-10 and 2007-4. The label has been date-stamped "Notification" and will be placed in our records.

If you have any questions, call me at 703 305-5409 or contact me electronically at [daniel.dani@epa.gov](mailto:daniel.dani@epa.gov).

Sincerely,

Dani Daniel  
Registration Division (7504P)  
Insecticide/Rodenticide Branch





**Drexel Chemical Company**

April 1, 2010

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
Rm S-4900, One Potomac Yard  
2777 S Crystal Drive  
Arlington, VA 22202

**Re: Submission of Revised Label by Notification per PR Notices 2007-4 and 98-10  
DREXEL ACEPHATE 75 WSP (EPA Reg. No. 19713-400)**

Herewith:

1. Completed EPA Form 8570-1
2. Two copies of the label (marked and clean) (400SP-0310\*) with updated container disposal statements and trademark ownership statement.

The Warranty statement was also updated.

The changes were highlighted for easy reference.

3. Certification Statements

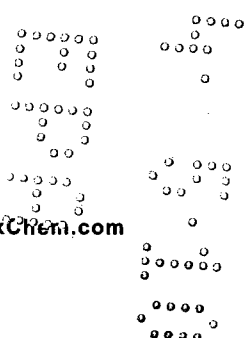
If you have questions/clarification regarding this submission, I can be reached at (901) 774-4370 or e-mail [Lchan@drexchem.com](mailto:Lchan@drexchem.com).

Thank you.

Respectfully yours,  
FOR DREXEL CHEMICAL COMPANY

Luz G Chan  
Registration Manager

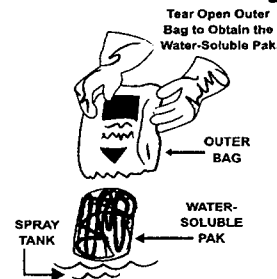
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# NOTIFICATION

APR 15 2010

# Drexel



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# Acephate 75 WSP

## Insecticide in a Water Soluble Pak

### ACTIVE INGREDIENT:

Acephate ..... 75.0%

OTHER INGREDIENTS: ..... 25.0%

TOTAL: ..... 100.0%

**KEEP OUT OF REACH OF CHILDREN**

# CAUTION

See **FIRST AID** Below

EPA Reg. No. 19713-400

EPA Est. No. \_\_\_\_\_

Net Contents:

\_\_\_\_\_ Packets

\_\_\_\_\_ Lbs./Packet

\_\_\_\_\_ Total Lbs.

### FIRST AID

#### IF SWALLOWED:

- Call a 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 a poison control center or doctor.
- Do not give anything by mouth to an unconscious or convulsing person.

#### IF IN EYES:

- 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.

#### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.

#### IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment. For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

**NOTE TO PHYSICIAN:** Acephate is 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 and symptoms of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine but should not be used alone.

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and 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 in 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 in an EPA chemical-resistance category selection chart.

(Continued)

### PRECAUTIONARY STATEMENTS (Cont.)

**Mixers, loaders, applicators and other handlers using engineering controls must wear:** Long-sleeved shirt and long pants, shoes plus socks and chemical-resistant such as polyethylene or polyvinyl chloride gloves. In addition, applicators using low pressure hand wand application equipment must wear: 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.

See engineering control statements for additional requirements. 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

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, must have immediately available and must 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:** 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. 3) 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. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. 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 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.

Manufactured By:

## Drexel Chemical Company

P.O. BOX 13327, MEMPHIS, TN 38113-0327

**EST. 1972**

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, 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), restricted entry interval (REI) and notification to workers. The requirements in this box only apply to uses of this product that are covered by the WPS. Do not enter or allow worker entry into treated areas during the REI of 24 hours. PPE required for early entry to treated areas that is permitted under the WPS 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 its product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Do not enter or allow others to enter treated areas until sprays have dried.

**GENERAL INFORMATION**

This package contains multiple water soluble packs of ACEPHATE 75 WSP. Do not handle the packets with wet gloves or allow the packets to become wet prior to addition to spray tank. Do not break open packets. Refer to **Tables of Equivalents** to calculate the number of packets to use. If all packets are not used, close and reseal outer container to protect remaining packet(s).

To prepare spray solution, drop the unopened packet of this product into a spray tank containing at least one-half the total quantity of water required. Continue to add water with the agitator running until the spray volume is reached. Depending on the water temperature and degree of agitation in the tank, the packet(s) should completely dissolve in approximately 5 minutes.

**Note:** Products containing boron and/or fertilizers will prevent the water-soluble packet from dissolving. Boron and/or fertilizer products must only be added after packet(s) have completely dissolved.

**IMPORTANT NOTE**

Please pay special attention to the maximum seasonal application rates given for each crop. Repeat applications may not be used in excess of these limits.

**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 volume (ULV) spray, 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.
- 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 as to minimize drift caused by wind tip vortices. The minimum boom length should be used and must not exceed 75% of wind span or rotor diameter.
- For ground applications, do not apply at heights greater than 4 feet.

**CHEMIGATION**

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.

Apply to Cranberries only by sprinkler irrigation systems, including central pivot, lateral move, end tow, side (wheel), roll, travelers, big gun, solid, set or hand move. Do not apply this product by chemigation to any other crop, or through any other type of irrigation system.

**USE RESTRICTIONS**

Not for indoor residential use. For greenhouse use, use is limited to commercial greenhouses for use on the listed nursery stock plants and tobacco (floatbed application). Do not apply by low pressure hand wand equipment except for the control of fire ants as mound treatment.

**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 the user, applicator and/or the 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 This Product	1.33 lbs.	1 lb.	0.66 lb.	4 ozs.	2 ozs.
Amount Active Contained	1 lb.	0.75 lb.	0.50 lb.	0.20 lb.	0.10 lb.

**TABLE OF EQUIVALENTS FOR 1 LB. PACKET**

Rates of This Product Per Acre	Acres Treated by a 1 lb. Packet
4 oz.	4.00
0.3 lb.	3.00
0.66 lb.	1.50
1 lb.	1.00
1.3 lbs.	0.75
2.6 lbs.	0.38
6.6 lbs.	0.15

**COTTON**

Insects	Amount of This Product per Acre	Days to Harvest	Further Use Instructions
Thrips	3 ozs. to 4 ozs.	21	Apply in water at 3 to 10 gals. of spray per acre by air (minimum 5 gals. per acre in CA) or 10 to 25 gals. of spray per acre by ground.  Apply when eggs or insects first appear. Repeat at 3- to 7- day interval as necessary to maintain control.* Use the longer spray interval if rate applied is more than 0.6 lb./A.  Do not feed gin trash or treated forage to livestock.
Plantbugs (Lygus) <sup>1</sup>	<b>By Ground:</b> 0.33 to 1.33 lbs (5.25 to 21.3 ozs.) <b>By Air:</b> 0.33 to 1.0 lb. (5.25 to 16 ozs.) <b>By Ground or Air:</b> (CA, AZ) 1 to 1.33 lbs. (16 to 21.25 ozs.)		
Fleahoppers	0.33 lb. (5.25 ozs.)		
Cotton aphids <sup>2</sup> [excluding AZ, CA]	<b>By Ground:</b> 0.66 to 1.33 lbs. (10.5 to 21.3 ozs.) <b>By Air:</b> 0.33 to 1.0 lb. (5.25 to 16 ozs.)		
Whiteflies	<b>By Ground:</b> 0.66 to 1.33 lbs. (10.5 to 21.3 ozs.) <b>By Air:</b> 0.66 to 1.0 lb. (10.5 to 16 ozs.) <b>By Ground or Air:</b> (CA, AZ) 0.66 to 1.33 lbs. (10.5 to 21.3 ozs.)		
Armyworms (excluding Beet armyworms)	<b>By Ground:</b> 1.33 lbs. (21.3 ozs.) <b>By Air:</b> 1.0 lb. (16 ozs.)		
Cabbage loopers	<b>By Ground or Air:</b> (CA, AZ) 1.33 lbs. (21.3 ozs.)		
Bollworms, Tobacco budworms <sup>3</sup>	<b>By Ground:</b> 0.66 to 1.33 lbs. (10.5 to 21.25 ozs.) [East of Rockies] <b>By Air:</b> 0.66 to 1.0 lb. (10.5 to 16 ozs.)		
Adults, Larvae <sup>4</sup>	<b>By Ground or Air:</b> (CA, AZ) 1.33 lbs. (21.25 ozs.)		
Eggs/ Deadhatch <sup>5</sup>			
Stinkbugs (CA, AZ)	1 lb. (16 ozs.)		
Cutworms <sup>6</sup> (CA, AZ)			

(Continued)

COTTON (Cont.)

Insects	Amount of This Product per Acre	Days to Harvest	Further Use Instructions
Pink bollworms <sup>7</sup> [AZ, CA]	1.33 lbs. (21.3 ozs.)	21	Apply in water at 3 to 10 gals. of spray per acre by air (minimum 5 gals. per acre in CA) or 10 to 25 gals. of spray per acre by ground.  Apply when eggs or insects first appear. Repeat at 3- to 7- day interval as necessary to maintain control.* Use the longer spray interval if rate applied is more than 0.6 lb./A.  Do not feed gin trash or treated forage to livestock.

- <sup>1</sup> Lygus – Use higher rate for Lygus adults that have migrated into Cotton.
- <sup>2</sup> Cotton aphids – This insect has shown the ability to develop resistance to various classes of insecticides in various locations at various times during the production season. Consult your Local Agricultural Extension Service for the current recommended control practices for this insect.
- <sup>3</sup> Bollworms and Tobacco budworms – For early season light infestation use 0.66 lb. per acre. For mid-and late-season moderate to severe infestations use the higher rate per acre. Apply when eggs appear and repeat at 7 day spray intervals.
- <sup>4</sup> Adults/Larvae – Moths are controlled when they come in direct contact with spray pesticides during application. Moth kill is most likely to occur when application is made late in the evenings during periods of peak activity.
- <sup>5</sup> Eggs – When spray pesticides come in direct contact with eggs, hatching larvae may be controlled as they consume and emerge from their egg casing.
- <sup>6</sup> Cutworms – Control measures are most effective when ground applications are made in the evenings and the spray is directed toward the lower portion and base of the plant. Apply in water at 10 to 25 gals. of spray per acre by ground. Aerial applications are not as effective in controlling Cutworms. However, should aerial application be necessary, apply in water at 3 to 10 gals. of spray per acre (minimum 5 gals. per acre in CA). Apply when insects first appear or damage is first noted and repeat at 7 day intervals to maintain control.
- <sup>7</sup> Pink bollworms – Apply when insects appear and repeat at 7 day spray intervals.

\*Cotton Restriction: Apply no more than 4 lbs. a.i. (5.3 lbs. of this product) per acre per season. This includes all methods of application.

COTTON\* TANK MIXES (CA, AZ)

Insects	Amount of This Product + Lorsban® 4E per Acre	Days to Harvest	Further Use Instructions
Amyworms (excluding Beet armyworms), Bollworms, Cabbage loopers, Cotton aphids, (excluding CA, AZ), Fleahoppers, Grasshoppers, Pink bollworms, Plant bugs (Lygus, Mirids), Salt marsh caterpillars, Thrips, Tobacco budworms, Whiteflies (excluding Sweet potato whiteflies)	<b>By Ground:</b> 0.33 to 1.33 lbs. (5.25 to 21.3 ozs.) + 1 to 2 pts. <b>By Air:</b> 0.33 to 1.0 lb. (5.25 to 16 ozs.) <b>By Ground or Air:</b> (CA, AZ) 0.33 to 1.33 lbs. (5.25 to 21.3 ozs.) + 1 to 2 pts.	21	Do not feed gin trash or treated forage to livestock.  Do not allow livestock to graze on treated areas.  Apply when eggs or insects first appear. Repeat at 3- to 7-day interval as necessary to maintain control.* Use the longer spray interval if rate applied is more than 0.6 lb./A.

\* Cotton Restriction: Apply no more than 4 lbs. a.i. (5.3 lbs. of this product) per acre per season. This includes all methods of application.

COTTON\* TANK MIXES (CA, AZ) (Cont.)

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Insects	Amount of This Product (Lb.) + **Synthetic Pyrethroid (fl. oz.) per Acre	Pyrethroid Maximum (Lbs./A)	Days to Harvest	Further Use Instructions
Aphids, Bollworms, Cabbage loopers, Cotton leaf perforators, Cutworms <sup>1</sup> , Fall armyworms, Fleahoppers, Pink bollworms [AZ, CA], Plant bugs, Stinkbugs <sup>1</sup> , Sweet potato, Whiteflies, Tobacco budworms, Whiteflies	<b>By Ground:</b> 1.33 lbs. to 2 acres up to 1.33 lbs. to 1 acre <b>By Air:</b> 1.33 lbs. to 2 acres up to 1.0 lb. to 1 acre + PYDRIN® 2.4 EC, 5.3 to 10.67 <b>By Ground and Air:</b> (CA, AZ) 1.33 lbs. to 2 acres up to 1.33 lbs. to 1 acre + PYDRIN® 2.4 EC, 5.3 to 10.67	2.0	21	Begin applications when eggs or insects appear and apply at 7-day intervals to maintain control.*  Apply in 3 to 5 gals. of water with aerial equipment or in 10 to 25 gals. of water with ground equipment.  Do not feed gin trash to livestock, or treated forage.
	ASANA® 1.9 EC, 1.4 to 3.4*	0.5		
	ASANA XL, 3.9 to 9.6*	0.5		
	CAPTURE® 2 EC, 1.3 to 6.4	0.5		
	BAYTHROID® 2 EC, 1.6 to 3.2	0.89		
	KARATE® 1 E, 3.2 to 5.12 [Except CA]	0.2		
	AMBUSH® 2 EC, 6.4 to 12.8	3.0		
	POUNCE® 3.2 EC, 2 to 8*	3.0		
	AMMO® 2.5 EC 2 to 5*	1.0		
	CYMBUSH® 3 EC, 1.7 to 2.56*	1.0		
SCOUT® 0.3 EC, 6.4 to 8 [Except CA]	0.19	28		
SCOUT X-TRA, 2.13 to 3.33 [Except CA]	0.19			

- <sup>1</sup> Stinkbugs and Cutworms - Use this product at 1 lb. per acre.
- <sup>1</sup> Cutworms - Control measures are most effective when ground applications are made in the evenings and the spray is directed toward the lower portion and base of the plant. Apply in water at 10 to 25 gals. of spray per acre by ground. Aerial applications are not as effective in controlling Cutworms. However, should aerial application be necessary apply in water at 3 to 10 gals. of spray per acre (minimum 5 gals. per acre in CA). Apply when insects first appear or damage is first noted and repeat at 7-day intervals to maintain control. All applicable directions, restrictions and precautions on the EPA registered labels are to be followed.

\*Cotton Restriction: Do not apply more than 4 lbs., a.i. (5.3 lbs. of this product) per acre per crop cycle. This includes all methods of application.

- \*\* Use low rate only for light infestations.
- \*\* Synthetic pyrethroids should be used within the guidelines of State and or Regional Resistance Management programs and recommendations.

**COTTON\* IN-FURROW APPLICATION**

Insects	Amount of This Product per Acre	Further Use Instructions
Aphids (excluding cotton aphids in AZ and CA), Black (greasy) Cutworms [Except CA], Thrips (including Western flower thrips)	0.66 to 1.33 lbs. (10.5 to 21.3 ozs.)	Refer to the conversion chart before making product application.  <b>CONVERSION CHART</b>  <b>LBS. A.I. TO OZ.</b> <b>FORMULATED PRODUCT</b>  0.5 10.7 0.6 12.8 0.7 14.9 0.8 17.0 0.9 19.2 1.0 21.3  Apply 0.66 to 1.33 lbs. of this product in 3 to 5 gals. of water per acre as an in-furrow spray.

**Note:** For the Blacklands of TX, use only the 1 lb. rate (21.3 ozs. formulated product per acre.) This product can be mixed with fungicides that are sprayed in-furrow for disease control. Flat-fan nozzles used 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 ensures 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 ensure that the tubing is properly positioned to deposit spray solution into the seed furrow.

\* **Cotton Restrictions:** Apply no more than 1.0 lb. a.i. (1.33 lbs. of this product) per acre per season. This includes all methods of application.

**FIELD CROPS**

Crop	Insects	Amount of This Product per Acre	Days to Harvest
Peanuts	Grasshoppers	0.33 to 0.66 lb. (5.3 to 10.5 ozs.)	14 (of digging)
	Thrips	0.67 to 1 lb. (10.7 to 16 ozs.)	
	Corn earworms, Fall armyworms, Leafhoppers, Loopers, Velvetbean caterpillars	1 to 1.33 lbs. (16 to 21.3 ozs.)	
	<b>FURTHER USE INSTRUCTIONS:</b> Apply in water at 10 to 50 gals. of spray per acre by ground or in 5 to 10 gals. of spray per acre by air. Begin applications when insects first appear and repeat at 3- to 7-day intervals as needed to maintain control. Use the longer spray interval if rate applied is more than 0.6 lb./A. Do not apply more than 5.33 lbs. /A (4 lbs. a.i.) per season. Do not feed treated forage or hay to livestock or allow animals to graze treated areas. This product can be tank mixed with at-cracking and early post-emergence peanut herbicides.		
Peppermint, Spearmint	Alfalfa loopers, Cutworms, Aphids	1.33 lbs. (21.3 ozs.)	14
<b>FURTHER USE INSTRUCTIONS:</b> Apply in water at 5 to 10 gals. of spray per acre by air or 20 to 100 gals. of spray per acre by ground. Apply when eggs or insects first appear. Make one repeat application, if necessary, to maintain control. Do not apply more than 2.66 lbs. (2 lbs. a.i.) per acre per season. Do not use spent mint hay for feed for dairy animals.			

**TOBACCO\*\* (Except CA), GREENHOUSE APPLICATION**

Insects	Amount of This Product per Acre	Further Use Instructions
Cutworms, Flea beetles, Green peach aphids, Tobacco aphids	1 lb. (16 ozs.)	Apply to foliage at the equivalent of 1 tablespoon in 3 gals. of water per every 1,000 sq. ft. of bed. Apply evenly to insure thorough coverage.
<b>Note:</b> Floatbed water should be disposed of in the transplanted field through the transplant water or through foliar spray.		
<b>** Tobacco Restrictions:</b> Do not apply more than 5.3 lbs. (4 lbs. a.i.) per acre per season. This includes all methods of application.		

**FOLIAR APPLICATION (Except CA)**

(Flue-cured, Air-cured, Dark Fire-cured)

Insects	Amount of This Product per Acre	Days to Harvest	Further Use Instructions
Grasshoppers	0.33 to 0.66 lb. (5.25 to 10.5 ozs.)	3	Apply in 10 to 50 gals. of water per acre with ground equipment or a minimum of 3 gals. per acre by air.  Apply on a 3 to 7-day schedule as needed. Use the longer spray interval if rate applied is more than 0.6 lb./A.  Do not apply more than 5.33 lbs./A (4 lbs. a.i.) per season. This includes all methods of application.
Flea beetles, Green peach aphids, Hornworms, Tobacco thrips	0.66 lb. (10.5 ozs.)		
Stinkbugs, Tobacco aphids, Vegetable weevils	0.66 to 1 lb. (10.5 to 16 ozs.)		
Budworms, Cabbage loopers, Cutworms	1 lb. (16 ozs.)		

**TRANSPLANT WATER APPLICATION (Except CA)**

Insects	Amount of This Product per Acre	Further Use Instructions
Cutworms, Flea beetles, Green peach aphids, Tobacco aphids, Tobacco thrips	1 lb. (16 ozs.)	Provides control of early season Flea beetles, Green peach aphids, Tobacco aphids and Cutworms for approximately 3 to 4 weeks after transplanting. For later season control of these insects, apply a foliar spray of this product.  Apply in a minimum of 100 gals. of transplant water per acre.  Do not apply more than 5.3 lbs./A (4 lbs. a.i.) per season. This includes all methods of application.  Do not apply more than 1 lb. of this product per acre as a transplant water application as some phytotoxicity may occur.
<b>Make transplant-water applications using mechanical transplant equipment only. Using such equipment, the insecticide/water mixture is mechanically applied directly into the soil along with the transplanted plants.</b>		

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**SOIL APPLICATION (Except CA)**

Insects	Amount of This Product per Specified Amount of Water	Days to Harvest	Further Use Instructions
Imported fire ants and Harvester ants	<b>Mound Treatment – Drench Method:</b> Mix an equivalent of 1 oz. in 5 gals. of water. (1 lb. per 80 gals.) Apply 1 gal. of mix to each mound area by sprinkling the mound unit until it is wet and treat a four (4) ft. diameter circle around the mound.	3	For best results apply the material in the early morning or late afternoon when the Ants are most active.  Applications made under prolonged hot and dry conditions may be ineffective due to the location of the Ants deep within the nest.  Treat maximum of 13 mounds per acre.  Do not apply more than 5.3 lbs./A (4 lbs. a.i.) per season. This includes all methods of application.  Do not treat more than once per season.

**PLANT BED APPLICATION (Except CA)**

Insects	Amount of This Product per Acre	Further Use Instructions
Cutworms, Flea beetles, Green peach aphids, Tobacco aphids	1 lb. (16 ozs.)	Apply to foliage at the equivalent of 1 tablespoon per gal. of water per every 1,000 sq. ft. of bed. Apply evenly to insure thorough coverage.  Apply at 7-day intervals.  Do not apply more than 5.3 lbs. /A (4 lbs. a.i.) per season. This includes all methods of application.

**VEGETABLE CROPS**

Crop	Insects	Amount of This Product per Acre	Days to Harvest
Beans and Lima beans (dry and succulent forms)	Fleahoppers, Grasshoppers	0.33 to 0.66 lb. (5.25 to 10.5 ozs.)	14 (Dry beans or Snap beans)
	Aphids (excluding Black bean aphids), Bean leaf beetles, Bean leafrollers, Cabbage loopers, Cutworms, Green cloverworms, Leafhoppers, Mexican bean beetles, Plantbugs (Lygus), Soybean loopers, Thrips, Whiteflies (except Sweet Potato or Silver Leaf)	0.66 to 1.33 lbs. (10.5 to 21.3 ozs.)	1 (Lima beans - succulent form)
	Amyworms (excluding beet armyworm), Corn earworms, European Corn borers	1 to 1.33 lbs. (16 to 21.3 ozs.)	
	FURTHER USE INSTRUCTIONS: Apply in water at a minimum of 2 gals. of spray per acre by air or 20 to 100 gals. of spray per acre by ground. Apply when eggs or insects first appear. Apply at 7- to 10-day intervals as necessary. For severe insect infestations, use higher rates. Do not exceed 2.66 lbs. (2 lbs. a.i.) per acre per season. At the rate of 1.33 lbs., only one repeat application can be made. Do not feed treated vines to livestock.		
Brussels sprouts, Cauliflower	Green peach aphids	0.66 to 1.33 lbs. (10.5 to 21.25 ozs.)	14

(Continued)

**VEGETABLE CROPS (Cont.)**

Crop	Insects	Amount of This Product per Acre	Days to Harvest
Brussels sprouts, Cauliflower	Cabbage loopers, Diamondback moth larvae, Imported cabbage worms	1.33 lbs. (21.25 ozs.)	14
	FURTHER USE INSTRUCTIONS: Apply in water at 25 to 150 gals. of spray per acre by ground or a minimum of 5 gals. of spray per acre by air. Use the high rate when heavy infestations of Aphids are present. Begin applications when insects or eggs first appear. Repeat applications at 7-day intervals as needed. Do not apply more than 2.66 lbs. (2 lbs. ai) per acre per season. Do not feed trimmings to livestock or allow animals to graze in treated areas. <b>Diamondback Moth Larvae:</b> This insect has demonstrated an ability to develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current recommended control practices for this insect.		
Celery	Green peach aphids	0.66 to 1.33 lbs. (10.5 to 21.25 ozs.)	21
	Beet and Fall armyworms, Cabbage loopers	1.33 lbs. (21.25 ozs.)	
FURTHER USE INSTRUCTIONS: Apply in water at 50 to 100 gals. of spray per acre by ground or in a minimum of 5 gals. per acre by air. Apply when eggs or insects appear and repeat at 7- to 10-day intervals as necessary to maintain control. Do not apply more than 2.66 lbs. (2 lbs. a.i.) per acre per season. At the rate of 1.33 lbs., only one repeat application can be made. Trim plants (tops removed) before shipment for use. Do not use trimmed (tops) for food or feed.			
Head lettuce (crisp-head type only)	Aster leafhoppers, Green peach aphids	0.66 to 1.33 lbs. (10.5 to 21.25 ozs.)	21 Spring, Summer and early Fall crops in all areas and Winter crops in FL and TX, late Fall crops in AZ. Winter crops in AZ and CA.
	Armyworms (excluding Beet armyworms), Cabbage loopers	1.33 lbs. (21.25 ozs.)	
FURTHER USE INSTRUCTIONS: Apply in water at 5 to 10 gals. of spray per acre by air and 10 to 60 gals. of spray per acre (broadcast) by ground. Apply at 7-day intervals as necessary to obtain desired control. Do not apply more than 2.66 lbs. per acre (2 lbs. ai) per season. At the rate of 1.33 lbs., only one repeat application can be made. Do not apply after first head begins to form to crops which germinate from mid-September through November in desert areas of AZ and CA. Do not feed trimmings to livestock or allow to graze on treated areas.			
Peppers (non-bell type)	Aphids	0.66 lb. (10.5 oz.)	7
	FURTHER USE INSTRUCTIONS: For use in Midwestern, Eastern States and Puerto Rico only. Apply in water at 40 to 150 gals. of spray per acre with ground equipment. Repeat at 7-day intervals as necessary. Do not apply more than 1.33 lbs. (1 lb. a.i.) per acre per season. At the rate of 0.66 lb., only one repeat application can be made.		
Sweet peppers (bell type)	Grasshoppers	0.33 to 0.66 lb. (5.25 to 10.5 ozs.)	7
	Cabbage loopers, Green peach aphids, Tobacco hornworms	0.66 to 1.33 lbs. (10.5 to 21.25 ozs.)	

(Continued)



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**VEGETABLE CROPS (Cont.)**

Crop	Insects	Amount of This Product per Acre	Days to Harvest
Sweet peppers (bell type)	European corn borers	1 to 1.33 lbs. (16 to 21.25 ozs.)	7
	FURTHER USE INSTRUCTIONS: Apply in water at a minimum of 3 gals. of spray per acre by air or 25 to 150 gals. of spray per acre by ground. Apply when eggs or insects appear. Repeat at 3- to 7- days interval as necessary until insects have been reduced below economic numbers. Use the longer spray interval if rate applied is more than 0.6 lb./A. Do not apply more than 2.66 lbs. (2 lbs. a.i.) per acre per season. At the rate of 1.33 lbs., only one repeat application can be made.		

**CRANBERRIES**

Crop	Insects	Amount of This Product per Acre	Days to Harvest
Cranberries	Cranberry blossom worms, False armyworms, Cranberry cutworm, Fireworms, Gypsy moths, Spanworms, Sparganothis	1.33 lbs. (21.25 ozs.)	90
	FURTHER USE INSTRUCTIONS: Apply in water by air, ground or with sprinklers. Use a minimum of 2 gals. of spray per acre by air. Use sufficient water to give thorough coverage with ground or sprinkler equipment. Do not treat more than once per growing season. Do not apply more than 1.33 lbs./A(1 lb. a.i.) per season. Do not apply from start of bloom until all berries set.		

**SPRINKLER IRRIGATION APPLICATION TO CRANBERRIES**

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.

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 suppliers are in place.

A person knowledgeable of the chemigation system and responsible for its operation 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 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. See Note.

**Note:** 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 insure adequate mixing.

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

**NON-BEARING CITRUS (including Citrus nursery seedlings)**

Crop	Insects	Amount of This Product per Acre
Non-bearing citrus (Including Citrus nursery seedlings)	Aphids, Grasshoppers, Katydid, Mealybugs, Orange dogs, Plant bugs, Thrips, Whiteflies	0.66 lb. (10.5 ozs.)
	FURTHER USE INSTRUCTIONS: <b>TIME OF APPLICATION:</b> Apply at 3- to 7-day intervals as needed for control of existing populations. Use the longer spray interval if rate applied is more than 0.6 lb./A. The high rate should be used when a heavy infestation of Citrus blackfly is present. Begin applications when eggs or adults first appear. <b>RECOMMENDED APPLICATION:</b> Apply this product in 100 to 200 gals. of water per acre. Spray individual juvenile or non-bearing trees for coverage with total application not to exceed specified rate in lbs. per acre. Length of residual activity will depend upon spray coverage and the amount of moisture following application. Do not graze treated areas. <b>DO NOT HARVEST Citrus</b> for one year after treatment. For mound drench treatment, apply 1 gal. of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) ft. diameter circle around the mound.	
	Citrus blackflies (Except CA)	0.66 to 1 lb. (10.5 to 16 ozs.)
FURTHER USE INSTRUCTIONS: <b>TIME OF APPLICATION:</b> See above. <b>RECOMMENDED APPLICATION:</b> See above.		
Imported fire ants and Harvester ants	<b>Mound Treatment – Drench Method:</b> Mix an equivalent of 1 oz. in 5 gals. of water.	
Ants (excluding Fire, Harvester, Carpenter, and Pharaoh)	<b>Foliar Spray:</b> 1 lb. (16 ozs.)	
FURTHER USE INSTRUCTIONS: <b>TIME OF APPLICATION:</b> Apply at 7-day intervals as needed for control of existing populations. <b>RECOMMENDED APPLICATION:</b> See above.		

**SPECIALTY USES IN NON-CROP AREAS**

Crop	Insects	Amount of This Product per Acre
Non-Crop Areas (Borrow pits, Ditchbanks, Field borders, Fencerows, Roadsides)	Grasshoppers	0.33 lb. (5.25 ozs.)
	FURTHER USE INSTRUCTIONS: For early to mid-season application to Grasshoppers in field borders, fence rows, roadsides, ditchbanks and borrow pits, apply in 1 to 5 gals. of water by air or in 10 to 20 gals. of water with ground equipment. Use the higher volumes when spraying heavier foliage. Grazing or feeding of vegetation cut from treated areas is prohibited.	
	Imported fire ants	<b>Mound Treatment – Drench Method:</b> Mix an equivalent of 1 oz. in 5 gals. of water. Apply 1 gal. of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound.
For best results apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest. Grass in treated area may be injured. Do not treat mound more than once per season. Grazing or feeding of vegetation cut from treated areas is prohibited.		

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**SPECIALTY USES IN NON-CROP AREAS**

Plants	Insects	Amount of This Product per Acre
Container Grown Nursery Stock (Arborvitae, Azalea, Camelia, Rhododendron, Roses, Viburnum, Yew)	Black vine weevil, Strawberry root weevil	1 lb. (16 ozs.)
	<b>FURTHER USE INSTRUCTIONS:</b> <b>TIME OF APPLICATION:</b> Application should be made by mid-September for greenhouse stock and by mid-October for outdoor stock. Consult your local county extension agent for information on the identification and control of root weevils on ornamentals. <b>RECOMMENDED APPLICATION:</b> Apply the specified amount of this product per 100 gals. of solution so as to thoroughly drench the root system	
	Ants (excluding Fire, Harvester, Carpenter, and Pharaoh)	1 lb. (16 ozs.)
<b>FURTHER USE INSTRUCTIONS:</b> Apply as needed to control the pest.		

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage and disposal or cleaning of equipment.

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

For help with any spill, leak, fire or exposure involving this material, call Chemtrec 1-800-424-9300, day or night.

**PESTICIDE DISPOSAL:** Open dumping is prohibited. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**WATER SOLUBLE PAKS:** Carefully open outer bag. Never open the water-soluble bag.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Once outer bag of water soluble packet is empty, offer for recycling, if available, or dispose of in the trash as long as water soluble packet is unbroken, or 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.

**WARRANTY—CONDITIONS OF SALE**

OUR DIRECTIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures and other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

To the extent consistent with applicable laws, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. To the extent consistent with applicable laws, the foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.