

U.S. ENVIRONMENTAL PROTECTION AGENCY
'. Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

NOTICE OF PESTICIDE:

\_\_\_\_\_ Registration

\_\_\_\_ Reregistration

(under FIFRA, as amended)

EPA Reg. Number:

Date of Issuance:

51036-236 APR 1 1 1996

Term of Issuance:

Conditional.

Name of Pesticide Product:

Acephate 75SP

Name and Address of Registrant (include ZIP Code):

Micro Flo Co. P.O. Box 5948

Lakeland, FL 33807

5503439

161

Note: Changes in labeling differing in substance from that accepted in Connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EFA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Pungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
- 2. Make the following label changes before you release the product for shipment:
  - a. Add the designation, "EPA Reg. No. 51036-236".
  - b. Pursuant to the April 11, 1996 phone conversation with your consultant at SRA International, the crop soybeans has been deleted from the label and your final label must not bear this use. Acephate is not being supported for use on this crop.
  - c. Clarify the term, "PHI" wherever it appears throughout the label to denote that it is in terms of the number of days to harvest.

Signature of Approving Official:

Date

APR 1 1 1998

- d. Clarify the location of the "pamphlet" in the sentence, "Read entire label and pamphlet". No material designated as a "pamphlet" was submitted and reference to it must be deleted from the label. If it refers to a portion of the 27 page draft label which is to become a separate "pamphlet" once final labeling is printed, this sentence must be revised accordingly; i.e. "Read entire label and the pamphlet attached to this product which contains additional directions for use."
- e. In the directions for use on beans, etc., correct the sentence, "Apply in water at a minimum of 2 gal. spray per acre by ground." to read as follows.
- "Apply in water at a minimum of 2 gals. spray per acre by air; 20 to 100 gals spray per acre by ground."
- f. Correct the labeling as described below to bring it into compliance with the registered product labeling you have cited in support of your subject product.
- In the directions for use on head lettuce, etc., correct the wording, "late fall crops in AZ," to read, "late fall crops in AZ and CA." Delete the additional wording, "winter crops in AZ and CA."
- In the table headed, "Small spray equipment", correct the number of ounces appearing in the second column from "2 1/2; 5; 7 1/2; and 10" to "1.1; 2.1; 3.2; and 4.3", respectively and correct the heading of this column to clarify that these values represent the amount of product; i.e. acephate 75SP rather than the amount of the active ingredient, acephate.
- -In the same table, correct the number of teaspoons appearing in the third column from "1; 2; 3; and 4" to "1/2; 1; 1 1/2; and 2", respectively and correct the heading of this column to clarify that these values represent the amount of product; i.e. acephate 75SP rather than the amount of the active ingredient, acephate.
- Under the directions for use on both cotton and cotton tank mixes, revise "aphid" to read "aphid (excluding CA, AZ)"; revise "armyworms" to read "armyworms (excluding beet armyworm)" and, under the cotton tank mix directions, revise "whitefly" to read "whitefly (excluding sweet potato whitefly)".
- Under the cotton tank mix directions, add the following. "Cutworms- Use acephate 755P at 1 lb. per acre. 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. 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. spray per acre

(minimum 5 gals. per acre in CA). Apply when insects first appear or damage is first noted and repeat to maintain control."

- Under directions for use on lettuce, revise the claim for "armyworm" to read "armyworm (excluding beet armyworm)".
- g. Add the following use instruction to the tank mix directions. Refer to the enclosed copy of PR Notice 82-1.

"Acephate 75SP can be mixed with [fill in with identity of the registered products as named in your tank mix directions], provided those products do not prohibit tank mixes, provided the most restrictive of label limitations and precautions are observed, and provided no label dosage rates are exceeded."

- h. Under the directions for use on cotton in-furrow, clarify the application rates so that they are consistent as to whether they represent the amount of product (acephate 75SP) or the amount of the active ingredient (acephate); i.e. the column headed, "amount acephate 75SP per acre" cites the amount as "0.5 to 1.0 lb active". The correct application rate is .5 to 1.0 lb. of active ingredient per acre.
- 3. Provide the outstanding generic data identified on the attachments A and B to this Notice as being pertinent to the use patterns appearing on your subject label within the established timeframes as noted on these attachments.
- 4. Submit two copies of the revised final printed label before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Robert A. Forrest Product Manager (14) Insecticide-Rodenticide Branch Registration Division (7504C)

### ACEPHATE 75SP

Soluble Powder Insecticide

KILLS FIRE ANTS

Under the Federal suspections Unour tre recent fusicionen. Fungicido, sati la concide Act the monded for the proficile registered under EDA Res. No.

Active Ingredient *Acephate (O,S-Dimthyl acetylphosphoramidothioate)	By Wt.
*Acephate (O,S-Dimthyl acetylphosphoramidothioate)	- 75%
Inert Ingredients	2 <u>5</u> %
Total	100%

### KEEP OUT OF REACH OF CHILDREN

### CAUTION

### STATEMENT OF PRACTICAL TREATMENT

Acephate is an organophosphate, cholinesterase inhibitor.

IF SWALLOWED: Drink 1 to 2 glasses of water (or milk) and induce vomiting by touching the back of the throat with finger. If possible contact a physician, Poison Control Center, or emergency center before inducing vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. Take person and product container to the nearest emergency treatment center. IN CASE OF EYE CONTACT: Wash eyes with fresh water for 15 minutes. If irritation continues, see a doctor.
FOR SKIN CONTACT: Wash skin with plenty of soap and water. IF INHALED: Remove person from exposure area. Note to Physicians: Acephate is a cholinesterase inhibitor. If signs of cholinesterase inhibition appear, atropine is antidotal.

2-PAM may also be used in conjunction with atropine but should not

EPA Reg. No. 51036-appl. EPA Est. No. 51036-GA-01

be used alone.

Manufactured By: MICRO FLO CO. P.O. BOX 5948 LAKELAND, FL 33807

# 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)

Applicators and other handlers must wear:
Long-sleeved shirt and long pants
Waterproof gloves
Shoes plus socks
Chemical-resistant headgear for overhead exposure

Mixers and Loaders must wear:
Long-sleeved shirt and long pants
Waterproof gloves
Shoes plus socks
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 form 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. Applications may adversely affect birds in rangeland treatment areas. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Cover or soil-incorporate spills.

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

#### **PROHIBITIONS**

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

STORAGE: Keep pesticides 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 foodstuffs. 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.

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 canister into application equipment. Do not reuse container. Dispose of empty canister in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

READ ENTIRE LABEL AND PAMPHLET. 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, norseries, and greenhouses, and bandlers 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 (PDE), 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 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, waterproof gloves, and shoes plus socks and chemicalresistant 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 CER part 170). The WPS applies when
this product is used to produce agricultural plants on farms,
forests, or greenhouses. For other uses, including golf courses
and other non-agricultural areas, do not enter treated areas
without protective clothing until sprays have dried

### DIRECTIONS

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.

## TABLE OF EQUIVALENTS

Amount of ACEPHATE 75SP	1 1/3 lbs	1 lb	2/3 lbs	4 oz	2 oz
Amount Active Contained	1 lb	3/4 lb	1/2 lb	1/5 lb	1/10 lb

### COTTON

			COLTON	
CROP	INSECTS	AMOUNT ACEPHATE 75SP PER ACRE	FURTHER USE INSTRUCTIONS	PHI
Cotton	Thrips	4 oz.	Apply in water at 3 to 10 gals. spray per acre by air (minimum 5 gals./acre in CA, AZ) or 10 to 25 gals. spray per acre by ground.	21
	Plantbugs (Lygus)	1/3 to 1 1/3 lbs 2/3 to 1 1/3 lbs (CA, AZ)	Apply when eggs or insects first appear. Repeat as necessary to maintain control.	
	Flea- hopper	1/3 lb.	Do not feed gin trash to livestock or allow animals to graze on treated areas.	
	Cotton Aphid Whitefly	2/3 to 1 1 1/3 lbs		
	Armyworms Cabbage Looper	1 1/3 lbs	Lygus - Use higher rate for lygus adults that have migrated into cotton.	, ,

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	Bollworm Tobacco Budworm Adults Larvae Eggs/DEAD- HATCH	2/3 to 1 1/3 lbs (E. of Rockies) 1 1/3 lbs (CA,AZ)	Bollworm and Tobacco Budworm - Early season light infestation use 2/3 lb. per acre. Mid and late season moderate to severe infestations use 1 to 1 1/3 lbs. per acre. Apply when eggs appear and repeat at 3 to 7 day spray interval.
	Stink bugs (CA,AZ)	1 lb	Adults/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.
	Pink Bollworm (CA,AZ)	1 1/3 lbs	Eggs: When spray particles come in direct contact with eggs, hatching larvae may be controlled as they consume and emerge from their egg casing.
			Pink Bollworm - Apply when insects appear and repeat at a 5 to 7 day spray interval

# COTTON TANK MIXES

CROP	INSECTS	AMOUNT ACEPHATE - 75SP + Chlorpyrifos 4E PER ACRE	FURTHER USE INSTRUCTIONS	PHI
Cotton (CA,AZ)	Armyworms, Bollworms, Cabbage Looper, Cotton Aphid, Cutworms, Fleahopper, Grasshoppers, Pink Bollworm, Plant Bugs (Lygus, Mirids), Salt Marsh Caterpillar, Thrips, Tobacco Budworm, Whitefly	1/3 to 1 1/3 lbs. + 1 to 2 pts.	Do not feed gin trash or treated forage to livestock.  Do not allow livestock to graze on treated areas.	21

CROP	INSECTS	AMOUNT ACEPHATE 75SP + PYDRIN 2 4EC PER ACRE	FURTHER USE INSTRUCTIONS	DAYS TO HAR- VEST
Cotton (except CA, AZ)	Tobacco Budworm	2/3 lb + 2 2/3 fl. oz	Begin applications when eggs or insects appear and apply as needed 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 allow animals to graze treated areas.  Do not apply more than two (2) lbs. active ingredient of PYDRIN to a crop in a growing season.  All applicable directions, restrictions and precautions on the EPA registered labels are to be followed.	21

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

CROP	INSECTS	AMOUNT ACEPHATE 75SP PER ACRE	FURTHER USE INSTRUCTIONS
Cotton	Thrips, Cotton Aphids, Black (Greasy) Cutworm	3 to 4 oz.	Apply 3 to 4 oz. ACEPHATE 75SP per acre in the planter box as a dry powder Even coverage is required for acceptable insect control. To obtain even coverage, fill planter box 1/2 full of seed, add the proper amount of ACEPHATE 75SP and mix thoroughly with a stick Add the remainder of the seed to the planter box and the additional required amount of ACEPHATE 75SP followed by thorough mixing For improved mixing, premix seed with ACEPHATE 75SP in a suitable container, then pour treated seed into planter box. Loss of ACEPHATE 75SP will occur if air planters are used Plants grown fROm improperly covered seed will not exhibit insect control Do not use treated seed for food or feed purposes or process for oil

## COTTON IN-FURROW APPLICATION

CROP	INSECTS	AMOUNT ACEPHATE 75SP PER ACRE	FURTHER USE INSTRUCTIONS
Cotton	<u>T</u> ,	0.5 to 1.0 lb active	Refer to the ACEPHATE 75SP conversion chart before making product application.  SEE CHART BELOW*  Apply 0.5 to 1.0 lb. active ACEPHATE 75SP in 3 to 5 gals. of water per acre as an in-furrow spray.  NOTE: For the Blacklands of Texas use only the 1.0 lb. active ACEPHATE 75SP rate (21.3 oz. formulated product per acre) ACEPHATE 75SP can be mixed with fungicides that are sprayed infurrow for disease control.  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.

### ACEPHATE 75SP CONVERSION CHART

### LBS. A.I. TO OZ. FORMULATED PRODUCT

0.5	10.7	
0.6	12.8	
0.7	14.9	
0.8	17.0	
0.9	19.2	
1.0	21.3	

				Do not graze or cut vines for hay or forage.	
Jeleked Hill 910		Soybean Looper, Cabbage Looper, Green Clover Worm, Velvetbean Caterpillar, Bean Leaf Beetle, Mexican Bean Beetle Silver Spotted Skipper (except CA)	2/3 to 1 1/3 lbs.		
)		Stink Bugs, Armyworms, Threecornered Alfalfa Hopper, Corn Barworm	1 to 1 1/3 lbs.	-	
	Peanuts	Grasshoppers	1/3 to - 2/3 lb.	Apply in water at 10 to 50 gals. spray per acre by ground or in 5 to 10 gals. spray per acre by air. Begin applications when insects first appear and repeat as needed to maintain control. Do not feed treated forage or hay to livestock or allow animals to graze treated areas.	14 (of dig gin g)
		Thrips	2/3 to 1 lb.	Body on the control of the first and depresentation of the control	

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Corn earworms, Fall armyworms, Leafhopper Loopers, Velvetbean Caterpillar	1-to 1 1/3 1b.				

# TOBACCO TRANSPLANT WATER APPLICATION (EXCEPT CA)

CROP	INSECTS	AMOUNT ACEPHATE 75SP PER ACRE	FURTHER USE INSTRUCTIONS
Tobacco	Flea Beetle, Green Peach Aphid, Tobacco Aphid, Cutworms Tobacco Thrips	1 lb.	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 ACEPHATE 75SP.  Apply in a minimum of 100 gals. of water per acre.  Do not apply more than 1 lb. ACEPHATE 75SP per acre as a transplant water application as some phytotoxicity may occur.

## TOBACCO FOLIAR APPLICATION (EXCEPT CA)

CROP	INSECTS	AMOUNT ACEPHATE 75SP PER ACRE	FURTHER USE INSTRUCTIONS	PHI
Tobacco (Flue- Cured, Air Cured, Dark Fire Cured)	Grasshoppers	1/3 to 2/3 lb.	Apply in 10 to 50 gals. water per acre with ground equipment or a minimum of 3 gals. per acre by air.	3
*	Green Peach Aphid, Flea Beetle, Hornworm, Tobacco Thrips	2/3 lb.	Apply on a 7 day schedule or as needed.	
	Tobacco Aphid, Vegetable Weevils, Stinkbugs	2/3 to 25 1 lb.		
	Budworm, Cabbage Looper, Cutworm	1 lb.	.,,	

# TOBACCO PLANT BED APPLICATION (EXCEPT CA)

CROP	INSECTS	AMOUNT ACEPHATE 75SP PER ACRE	FURTHER USE INSTRUCTIONS
Tobacco Bed Treat- ment	Flea Beetle, Green Peach Aphid, Tobacco Aphid, Cutworm	1 lb.	Apply to foliage at the equivalent of 1 tablespoon in 1 gal. of water per every 1,000 sq. ft. of bed. Apply evenly to insure thorough coverage.

# GREENHOUSE APPLICATION (EXCEPT CA)

CROP	INSECTS	AMOUNT ACEPHATE 75SP PER ACRE	FURTHER USE INSTRUCTIONS
Tobacco _	Cutworm, Flea beetle, Green Peach Aphid, Tobacco Aphid	1 lb.	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.  NOTE: Floatbed water should be disposed of in the transplanted filed through the transplant water or through foliar spray.

### TOBACCO SOIL APPLICATION (EXCEPT CA)

CROP '	INSECTS	AMOUNT ACEPHATE 75SP	FURTHER USE INSTRUCTIONS	PHI
Tobacco			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 treat more than once per season.	3

FRUIT CROPS

CROP .	INSECTS	AMOUNT ACEPHATE 75SP PER ACRE	FURTHER USE INSTRUCTIONS	PHI
Cran- berries	Cranberry Blossom Worm, Gypsy Moth, False Armyworm, Fireworms, Spanworms, Spanworthis	1 1/3 lb.	Apply in water by air, ground or with sprinklers.  Use a minimum of 2 gals. spray per acre by air. Use sufficient water to give thorough coverage with ground or sprinkler equipment.  NOTE: Limit to one application per growing season.  Do not apply form start of bloom until all berries set.	90

### SPRINKLER IRRIGATION APPLICATION TO CRANBERRIES

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.

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 supplies 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, 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.

System 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 Systems: 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 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 line 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 angle 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.

# VEGETABLE CROPS -

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CROPS .	INSECTS	AMOUNT ACEPHATE 75SP PER ACRE	FURTHER USE INSTRUCTIONS	PHI
Beans & Lima Beans (Dry & culent Forms)	Fleahoppers, Grasshoppers	1/3 to	Apply in water at a minimum of 2 gals. spray per acre by ground.  Apply when eggs or insects first appear. Repeat at 7 to 10 day intervals as necessary. Severe insect infestations, use higher rates.  Do not feed treated vines to livestock.	14 (snap- beans or dry beans)  0 (lima beans succu- lent form)
	Aphids, Beanleaf Beetle, Bean Leafroller, Cabbage Looper, Cutworms, Green Cloverworm, Leafhoppers, Mexican Bean Beetle, Plantbugs (Lygus), Soybean Looper, Thrips, Whitefly	2/3 to 1 1/3 lbs.	_ g	
	Armyworms, Corn Earworm, European Cornborer,	l to 1 1/3 lbs.		

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Brussels Sprouts, Cauli flower	Green Peach		Apply in water at 25 to 150 gals. spray per acre by ground or a minimum of 5 gals. 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 application as needed. Do not apply more than 8 lbs. per acre per season to Brussels  Sprouts.  Do not feed trimmings to livestock or allow animals to graze in treated areas.	14
	Cabbage Looper, Diamondback Moth, Imported Cabbageworm	1 1/3 lbs.		
Celery	Green Peach Aphid	2/3 to 1 1/3 lbs.	Apply in water at 50 to 100 gals. 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 3 to 10 day intervals as necessary to maintain control.  Trim plants (tops removed) before shipment or use.  Do not use trimming (tops) for food or feed.	21 =
	Beet & Fall Armyworm, Cabbage Looper,	1 1/3 lbs.		·

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Head Lettuce (Crisp head Type Only)	Aster Leafhopper, Green Peach Aphid	2/3 to	Apply in water at 5 to 10 gals. spray per acre by air or 10 to 60 gals. spray per acre (broadcast) by ground. Apply as necessary to maintain desired control. Do not apply more than 6 2/3 lbs. per acre per season. 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 animals to graze on treated areas.	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.
	Cabbage Looper, Armyworm	1 1/3 lbs.		
Peppers (non bell type)	Aphids	2/3 lbs.	For use in Midwestern, Eastern stats and Puerto Rico only. Apply in water at 40 to 150 gals. spray per acre with ground equipment. Repeat at 7 to 10 day intervals as necessary. Do not exceed 7 applications per season.	7
Sweet peppers (Bell type)	Grasshoppers	1/3 to 2/3 lbs.	Apply in water at a minimum of 3 gals. spray per acre by air or 25 to 150 gals. spray per acre by ground.  Apply when eggs or insects appear. Repeat as necessary until insects have been reduced below economic numbers.	7
	Cabbage Looper, Green Peach Aphid Tobacco Hornworm	2/3 to 1 1/3 lbs.		
	European Cornborer	1 to 1 1/3 lbs.		
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CROP	INSECTS '	AMOUNT ACEPHATE 75SP PER ACRE	FURTHER USE INSTRUCTIONS	PHI
Pasture, Rangeland, Wasteland	Grasshoppers, Mormon Crickets, Black Grass Bugs	1/8 to 1/6 lb.(0.094 to 0.125 lb. active ingredient		for hay

CROPS	INSECTS	AMOUNT ACEPHATE 75SP	FURTHER USE INSTRUCTIONS	PHI
Pasture Range land Waste- land	Imported Fire Ants	Dry Method: Evenly distribute 1 to 2 teaspoons over the mound.  Drench Method: Mix 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.  Treat maximum of 13 mounds per acre.  Do not treat mound more than once per season.  Do not apply when lactating dairy cattle are present. Do not graze or feed grass or grass hay to dairy animals. Remove meat animals from treated areas at least 1 day before slaughter if they were present ap application or grazed treated areas within 21, days after application.	21
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SPEÇIALTY USES

CROP	INSECTS	AMOUNT ACEPHATE 75SP PER ACRE	FURTHER USE INSTRUCTIONS
Non-crop Areas (field borders, fencerows, roadsides, ditch- banks and borrow pits)	Grass- hoppers _	1/3 lb. (.25_lb. active ingredient)	For early to mid-season application to grasshoppers in field borders, fencerows, roadsides, ditchbanks, and borrow pits. Apply in I 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. Do not graze or feed vegetation cut from treated areas.
Non-Crop Areas	Imported Fire Ants	Mound Treatment— Dry Method: Evenly distribute 1 to 2 teaspoons over the mound.  Drench Method: Mix 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.

PLANTS 3.3	INSECTS	AMOUNT ACEPHATE 75 75SP PER 100 GALS	TIME OF APPLICATION	RECOMMENI APPLICAT	1	
Container Grown Nursery Stock (Arbor- vitae, Axelea, Camelia, Rhodod- endron, Roses, Viburnum, Yew)	Root Weevil	1 lb. (16 oz.)	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.	Apply the specified amount of ACEPHATE Spray per gals. of solution to thorodrench to system.	d f SC r 100 so as ughly	
	Imported Fire Ants	1 lb.	Apply as needed to control the pest.			
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SMALL SPRAY EQUIPMENT
PREPARATION OF ACEPHATE SPRAY MIX USING A 16 OZ MEASURING CUP

LABEL RECOMMENDATION ACEPHATE 75 IN 100 GALS WATER	EQUIVALENT ACEPHATE IN 20 GALS WATER*	EQUIVALENT ACEPHATE IN GAL WATER (TSP/GAL)
1/3 lb 2/3 lb 1 lb 1 1/3 lb	2 1/2 oz 5 oz 7 1/2 oz 10 oz	1 2 3 4
*Use in 16 oz measuring	cup	

### TREES & SHRUBS

PLANTS	INSECTS	AMOUNT ACEPHATE 75SP PER 100 GALS.	TIME OF APPLICATION	RECOMMENDED APPLICATION
Trees and Shrubs (except Flowering Crab- apple, see below)	Aphids, Bagworms, Birch Leaf- miner, Ten Cater- pillar,* Lace Bugs, Leaf- rollers,	1/3 lb (5.3 oz)	As the insects begin to appear.	Apply the specified amount of ACEPHATE SC Spray in 100 gals. water with a hydraulic sprayer. The addition of a suitable sticker improves control of Gypsy Moth larvae.
	Douglas Fir Tussock, Moth Larvae, Gypsy Moth Larvae*, Webworms	2/3 lb (10.5 oz)	As insects begin to appear.	*Mist blower application. Adjust rates to 1 1/3 lbs. per 100 gals. water for Gypsy Moth control and 1/0 lb. per 100 gals. water for Tent Caterpillar control.
	Scales (Crawlers )	2/3 lb (10.5 oz)	As crawlers begin to appear. Repeat applications, at a 2 week or more interval, may be necessary where there is continuous crawler production.	Do not apply to Huckleberry, Balm of Gilead, Cottonwood, Lombardy Poplar and Viburnum suspensum.  Nursery crops. Before treating large plantings, spray only a few plants and observe two weeks for phytotoxicity.

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Trees and Shrubs	Ponderosa Pine Needle Miner	2/3 lb (10.5 oz)	Time of application is important. Consult your Farm Advisor or County Extension Agent.	Apply the specified amount of ACEPHATE SC Spray in 100 gals. water with a hydraulic sprayer as a full coverage spray
	Grass- hoppers	2/3 lb (10.5. oz)	As the grass- hoppers begin to appear	
	Calif- ornia Oakworm, Canker- worms (Spring & Fall)	1/3 2/3 lb (5.3 to 10.5 oz)	As the insects begin to appear. Use the higher amount when the larger larvae are present.	Apply the specified amount of ACEPHATE 75SP in 100 gals. water with a hydraulic sprayer.
	Nant- ucket Pine Tip Moth Larvae	1 lb (16 oz)	Time of application is important. Consult your Farm Advisor or County Extension Agent. Repeat applications will be required for subsequent generations.	
	Root Weevil Adults	1 1b (16 oz)	Apply when first feeding damage occurs. Repeat applications, at four week intervals until the first heavy frost, may be necessary for complete foliage protection.	Apply the specified amount of ACEPHATE 753P in 100 gals. water with a hydraulic sprayer as a full coverage spray.
-	Box Elder Bugs, Sawflies, Budworms, Leaf- hoppers	1 1b (16 oz)	As the insects begin to appear.	Apply the specified amount of ACEPHATE 75SP in 100 gals. water with a hydraulic sprayer as a full coverage spray.
	Japanese Beetle	1 1/3 Tbs (21.3 oz)	As the Japanese Beetles begin to appear. Repeat applications, at 2 week intervals, may be necessary.	
	Blm Leaf Beetle (larvae)	1 1/3 Tb (21.3 oz)	As the larvae begin to appear. ACEPHATE will not prevent Elm Leaf Beetle eggs from hatching.	

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Douglas Fir, - Christ- mas Trees	Douglas Fir Needle Midge	2/3 lb (10-5-02)	Application should be made no more than 2 weeks prior to bud burst. For additional pest management information, consult your county extension service:	Apply the specified amount of ACEPHATE 75SP in not less than 2 gals. of spray per acreby air or in 100 gals. of spray per acre by ground.
plower- ing Crab- apples	Aphids, Tent Cater- pillars, Leaf- rollers	1/3 lb (5.3 oz)	As the insects begin to appear.	Apply the specified amount of ACBPHATE 75SP in 100 gals. water with a hydraulic sprayer.  Do not apply more often than 3 times in a growing season at a 4 week interval.  Caution: Phytotoxicity has occurred on the following Crabapple varieties: Hopa, Ichonoski, Malusfloribunda, Pink Perfection, Red Wine and Snow Cloud.
Crepe Myrtle	Aphids	3 to 4 level Tbs. (0.8-1.1 oz) per 1 Tbs. of water.	As aphids begin to appear.	Make a paint-on slurry by mixing the specified amount of ACEPHATE 75SP with 1 Tablespoon of water. Remove the loose bark from the trunk areas to be treated. Completely pain a band around each trunk to a width twice its diameter. Application should be made to trunks within a zone 6 to 12 inches above the ground and below the point where branching begins. For multi-trunk plants be certain to treat all trunks. For either single or multi-trunk plants, application should be made as low as possible within the recommended treatment zone.

COMMERCIAL TURFGRASS, LAWNS, AND OTHER RECREATIONAL TURFGRASS AREAS DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS. DO NOT FEED TREATED GRASS TO LIVESTOCK.

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PLANTS	INSECTS -	AMOUNT ACEPHATE 75SP PER 1,000 SQT PT	TIME OF APPLICATION	RECOMMENDED APPLICATION
Turf- grass (Resid- ential & Comm- ercial)	Fall Armyworm, Yellow Striped Armyworm, Southern Armyworm	1/2 to 1.2 oz. (1 1/3 to 3 1/4 lbs per acre)	As the insects appear. A repeat application at 2 week intervals may be necessary.	Apply the specified amount of ACBPHATE 75SP per 1,000 sq ft. Use a minimum of 5 gals water per 1,000 sq ft to obtain good coverage.
	Cutworm .	1.2 to 2.4 oz (3 1/4 to 6 2/3 lbs per acre)		
	Chinch bugs	1.2 to 2.4 oz (3 1/4 to 6 2/3 lbs per acre)	Apply as needed for adult population knockdown (10 to 14 days)	Apply the specified amount of ACEPHATE 75SP per 1,000 sq ft. Use 1 to 15 gals water per 1,000 sq ft to obtain good coverage.
	Fleas	1.2 to 2.4 oz	Apply as needed for knockdown (7 to 10 days) only of existing adult populations.	
	Sod Webworm (Crambus spp)	1/2 to 1 oz (1 1/3 to 2 3/4 lbs per acre)	As sod webworms begin to appear. Use the higher amount when quick knockdown is needed or with heavy infestations. Repeat application may be necessary. Do not repeat at more than 1 week intervals.	Apply the specified amount of ACEPHATE 75SP per 1,000 sq ft. Use 1 to 15 gals water per 1,000 sq ft to obtain good coverage.
	Leaf- hopper	1 oz (2 3/4 lbs per acre)	As the leafhoppers begin to appear. A repeat application at 1 week intervals may be necessary.	Apply the specified amount of ACEPHATE 75SP per 1,000 sq ft. Use 1 to 15 gals water per 1,000 sq ft to obtain good coverage.

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Mole Crickets (Except CA)	1.0 to 1.9 oz (2.66-5.2 lbs per acre)	As mole crickets begin to appear. For knockdown of existing populations, more than one application may be required throughout the growing season. For heavy infestations, use the higher dosage rate.	Apply the specified amount of ACEPHATE 75SP per 1,000 sq ft. Use 1 to 15 gals water per 1,000 sq ft to obtain good coverage.	
			Apply during late afternoon or early evening hours and after an irrigation. Do not irrigate after application. The use of a lemon fragrance substance in the spray mix may enhance control by acting as a flushing agent and thus provide increased mole cricket contact with the ACBPHATE 75SP. The following lemon-scented products have been shown to be effective flushing agents. Lemon Joy, Lemon Palmolive and Might My Products Manufacture-Base Pure Lemon Fragrance. The use rate for these lemon-scented products is 2 teaspoons per gallon of water for small total mix volumes or 6 fl. oz. per 50 gals. of water for a large total mix volume.	
Greenbug (Schi- zaphis grami- nun), Grass- hoppers	1/2 oz (1 1/3 lbs per acrē)	Apply when insects or their damage first appears. Repeat as necessary. Application is not to be repeated at more than 1 week intervals.	Apply the specified amount of ACEPHATE 75SP per 1,000 sq ft. Use 1 to 15 gals water per 1,000 sq, ft to obtain good coverage. Do )ot how turfgrass for at 1 least 24 hours after application.	)
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Dichon- Cutworm dra Flea Beetle, Souther Armywor Yellow Striped Armywor	1.0 to 1.9 oz (2.7 to 5.2 lbs per acre)	As the insects appear. Repeat at 2 week intervals as necessary.	Apply the specified amount of ACEPHATE 75SP per 1,000 sq ft Use a minimum of 15 gals water per 1,000 sq ft to obtain good coverage.
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PLANTS .	INSECTS	AMOUNT ACEPHATE 75SP	TIME OF APPLICATION	RECOMMENDED APPLICATION
Turf-	Imported Fire Ant	Mound Treatment - Dry Method: Evenly distribute 1 to 2 teaspoons over the mound Drench Method: Mix 1 oz in 5 gals of water. Apply I 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.	apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions amy be ineffective due to the location	Apply the specified amount of ACEPHATE 75SP as directed.  Grass in treated areas may be injured.  Do not treat mound more than once per season.

# OUTDOOR WASP AND PERIMETER SPRAY

LOCATION	INSECTS	AMOUNT ACEPHATE 75SP PER GALLON	TIME OF APPLICATION	RECOMMENDED APPLICATION
Outdoor wasp and peri- meter area	Wasps	1/6 oz. (0.10)	Treat early or late in the day, as wasps are generally less active during these times.	Apply the specified amount of ACEPHATE 75SP per each gallon of water used. Apply as a spot treatment to the nest, nest entrance, and surrounding areas where the wasps alight.
	Cock- roaches, Ants, Pillbugs , Earwigs (Peri- meter treatmen t)	1.6 oz. (0.10 lbs.)	As the insects appear	Apply specified amount of ACEPHATE 75SP per each gallon of water use. Apply to a band of soil 6 to 10 feet adjacent to the structure and to a height of 2 to 3 feet on the foundation where pests may be active or may find entrance. Also apply as a residential spray or with a paint brush to surfaces of buildings, window frames, shutters, entry-ways, screens, eaves, patios, garages, carports, around, garbage areas and other areas where these pests congregate.

OUTDOOR FLORAL CROPS AND GROUND COVERS

OUTSON THOMAS CHOICE AND COUNTY				
PLANTS '	INSECTS	AMOUNT ACEPHATE 75SP PER 100 GALS	TIME OF APPLICATION	RECOMMENDED APPLICATION
Daisies, Dahlias, Easter Lily, Glad- ioli, Gypos- ophila, Pachy- sandra, Peony, Roses, Sedum, Statice, Straw- flower, Yarrow, Zinnia,	Aphids, Thrips, Lygus,	2/3 lb (10.5 oz)	As insects begin to appear. Repeat applications may be necessary.	Apply the specified amount of ACEPHATE SC in 100 gals water with a hydraulic sprayer as a full coverage spray Multiple applications may cause slight tip burn or marginal leaf necrosis on some varieties. Test on a few plants to determine varietal susceptibility
Roses, Boston Ivy	Japanese Beetle	1 1/3 lbs (21.3 oz)	As the Japanese Beetles begin to appear. Repeat applications at 2 week intervals may be necessary	

## GREENHOUSE FLORAL AND FOLIAGE PLANT CROPS

PLANTS	INSECTS	AMOUNT ACEPHATE 75SP PER 100 GALS	TIME OF APPLICATION	RECOMMENDED APPLICATION
Roses	Leaf- rollers	1b (10.5 to	appear. Use the	Apply the specified amount of ACEPHATE SC in 100 gals water with a hydraulic sprayer as a full coverage spray.

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Foliage Plants, Orchids Anth- uriums, Cacti, Poin- settia	Aphids	1/3_1b (5.3 oz)	As aphids begin to appear.	Apply the specified amount of ACEPHATE SC in 100 gals water with a hydraulic sprayer as a full coverage spray. The addition of a wetting agent may be required on difficult to wet foliage.  Caution: Phytotoxicity has occurred on the following foliage plants: Bletchum gibbum, Cissus antarctica, Ficus triangularis, Fittonia verschaffe-ltii, Maranta leuconeura kerchoveana, Pachystachya lutea, Plectranthus australis, Polypodium aureus, Polystichum, Pteris ensiformis, Tolmica menziesii. Before treating large plantings spray only a few plants and observe 2 weeks for varietal phytotoxicity. Applications of ACEPHATE SC on Poinsettas after bract formation may result in phytotoxicity on certain varieties.
	Mealy- bugs, Thrips, White- flies	2/3 lb (10.5 oz)	As the insects begin to appear. A repeat application, at a 2 week interval, may be necessary for control of mealybugs and white flies.	
	Scales (craw- lers)	2/3 lb (10.5 oz)	As crawlers begin to appear. Repeat applications, at a 2 week or more interval, may be necessary where there is continuous crawler production.	

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	Sweet Potato White- flies, (except CA and NY)	1/3 lb (5.3 oz) plus TAME 2.4 EC Spray 10 2/3 fl oz (0.2 lb ai)	Apply when insects first appear. If a population is well established, make one application of the tank mix and follow 5 to 7 days later with TAME alone at 16 fl oz/100 gals. See TAME label for instructions.	For sweet potato whitefly control, apply the specified amounts of ACEPHATE 75SP plus TAME 2.4 EC Spray as a tank mix at a volume necessary to obtain good coverage. Follow the TAME label for specific instructions on the alternation of TAME plus ACEPHATE and TAME alone and the rotation instructions to avoid potential resistance.
Roses, Carna- tions, Chrysan themums	Aphids, Thrips	2/3 lb (10.5 - oz)	As aphids begin to appear. As thrips begin to appear or at the right flower bud stage. Repeat applications may be necessary.	Apply the specified amount of ACEPHATE 75SP in 100 gals water with a hydraulic sprayer as a full coverage spray.  Do not apply more often than once every 28 days to Carnations and Chrysanthemums.
			•	Caution: Phytotoxicity has occurred on the following Chrysanthemum varieties: Albatross; Bonnie Jean, Dixië, Garland, Gent, Iceberg, Pride, Showoff, Statesman, Tally Ho, Westward Ho, and Wild Honey. Before treating large Chrysanthemum plantings, spray only a few plants and observe two weeks for varietal phytotoxicity. Do not apply to Chrysanthemums and Roses with open flowers.

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 fluffy nature this material is inclined to settle.

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