

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 05-31-98



EPA

United States
Environmental Protection Agency
Washington, DC 20460

- Registration
- Amendment
- Other:

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number Micro Flo Company, LLC / 51036-238	2. EPA Product Manager M. Mautz	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Micro Flo Company, LLC / Acephate 90SP	PM# Insecticide-Rodenticide Branch	
5. Name and Address of Applicant (Include ZIP Code) Micro Flo Company, LLC P.O. Box 772099 Memphis, TN 38117-2099	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Check if this is a new address

Section - II

NOTIFICATION

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below

OCT 25 2004

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)

Removal of voluntary language "THIS PRODUCT MAY NOT BE REFORMULATED, REPACKAGED OR RELABELED". This language was put on the label in error.

This notification is consistent with the guidance in PR Notice 98-10 and the requirements of EPA's regulations at 40 CFR 156.10 and 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the guidance of PR Notice 98-10 and the requirements of 40 CFR 156.10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
*Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product	
6. Manner in Which Label is Affixed to Product		<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)

Name Julie Mills	Title Regulatory Affairs Specialist	Telephone No. (Include Area Code) 901-432-5000
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Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature 	3. Title Regulatory Affairs Specialist	6. Date Application Received (Stamped)
4. Typed Name Julie Mills	5. Date October 7, 2004	

ACEPHATE 90SP
INSECTICIDE

Active Ingredient	
*Acephate (O,S-Dimethyl acetylphosphoramidothioate)	90%
Inert Ingredients	10%
Total	100%

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

Acephate is an organophosphate, cholinesterase inhibitor.

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

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 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 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

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 further treatment advice.

Note to Physician: Acephate is a cholinesterase inhibitor. If signs of cholinesterase inhibition appear, atropine is antidotal. 2-PAM may also be used in conjunction with atropine but should not be used alone.

EPA Reg. No. 51036-238
AD092903

EPA Est. No. 51036-GA-1

Manufactured By:
MICRO FLO COMPANY LLC
P.O. BOX 772099
MEMPHIS, TN 38117-2099
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.

EMERGENCY TELEPHONE NUMBERS: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact:

- (800) 424-9300 CHEMTREC (transportation and spills)
- (800) 900-4044 Poison Control Center (human health)
- (800) 345-4735 ASPCA (animal health)

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 from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. 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, 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.

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

STORAGE AND DISPOSAL

PROHIBITIONS:

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

STORAGE: Keep pesticide in original container. Do not put 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 bag into application equipment. Do not reuse container. Dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

CHEMIGATION

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

DIRECTIONS FOR USE

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

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas 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:

- 1. Coveralls
- 2. Waterproof gloves
- 3. Shoes plus socks
- 4. Chemical-resistant headgear for overhead exposure.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, or greenhouses. For other uses, including golf courses and other non-agricultural areas, do not enter treated areas without protective clothing until sprays have dried.

BEANS AND LIMA BEANS - Dry and Succulent

Beans and lima Beans - Dry and Succulent Forms - Recommendations
For Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHAT E 90 SP PER ACRE	REMARKS	DAYS TO HARVEST
<p>FOLIAR By Ground: 20 to 100 gals/A of spray. By Air: Minimum of 2 gals/A of spray</p>	<p>Fleahoppers Grasshoppers</p>	<p>0.25 to 0.5 lb. (4.5 to 8 oz)</p>	<p>Apply when eggs or insects first appear.</p>	<p>14 (snap-succulent or dry beans)</p>
	<p>Aphids (excluding Black Bean Aphid) Bean Leaf Beetle Bean Leafroller Cabbage Looper Cutworms Green Cloverworms Leafhoppers Mexican bean Beetle Plantbugs (lygus) Soybean Looper Thrips Whitefly (except Sweet potato or Silverleaf Whitefly)</p>	<p>0.5 to 1.1 lbs. (8 to 17.6 oz)</p>	<p>Repeat at 7-10 day spray intervals as necessary to maintain control.* Use higher rates for severe insect infestations.</p>	<p>0 (lima beans-succulent form)</p>
	<p>Armyworms (excluding Beet Armyworm) Corn Earworm European Corn Borer</p>	<p>0.8 to 1.0 lb. (12.8 to 17.6 oz)</p>		
<p>USE PRECAUTIONS: -Do not feed treated vines to livestock. -*Do not apply more than 2.2 lb./A (2 lbs ai) per season.</p>				

CELERY
Celery - Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 90SP	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 50 to 100 gals/A of Spray By Air: Minimum of 5 gals/A of Spray	Green Peach Aphid	0.5 to 1.1 lb. (8 oz to 17.6 oz)	Apply when eggs or insects first appear.	21
	Cabbage Looper	1.1 lb.	Repeat at 3 to 10 day spray	
	Fall Armyworms	(17.6 oz)	intervals as necessary to maintain control.*	
USE PRECAUTIONS -All Celery must be trimmed (tops removed) before shipment for use. -Do not use trimmed tops for feed or food. -*Do not apply more than 2.2 lb./A (2 lbs ai) per season.				

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COLE CROPS
Cole Crops - Brussels Sprouts & Cauliflower -
Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 90SP	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 25 to 150 gals/A of Spray By Air: Minimum of 5 gals/A of Spray	Green Peach Aphid	0.5 to 1.1 lb. (8 to 17.6 oz)	Use the high rate 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 Service for current recommended control practices for this insect.	14
	Cabbage Looper Diamondback moth Larvae Imported Cabbage worm	1.1 lb (17.6 oz)		
Use Precautions: -*Do not apply more than 2.2 lb/A (2 lbs ai) per season to Brussels Sprouts and Cauliflower. -Do not feed trimmings to livestock or allow animals to graze in treated areas.				

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COTTON

PHI (pre-harvest interval) denotes number of days to harvest.

CROPS	INSECTS	AMOUNT* ACEPHATE 90 SOLUBLE PER ACRE	ACRES PER LB. ACEPHATE 90 SOLUBLE	FURTHER USE INSTRUCTIONS**	PHI
Cotton	Thrips	3.2 oz.	1 lb. to 5 acres	<p>Apply in water at 1 to 3 gals. (AZ 3 to 5 gals.) spray per acre by air. Gallonage should be increased as plant size increases to ensure thorough coverage. (In CA apply a minimum of 5 gals. per acre by air). Apply 10 to 25 gals. spray per acre by ground. Apply when eggs or insects first appear.</p> <p>Repeat as necessary to maintain control.***</p> <p>Lygus - Use higher rates for lygus adults that have migrated into cotton.</p>	21
	Plant bugs (Lygus)	0.25 to 1 lb.	1 lb. to 4 acres up to 1 lb. to 1 acre		
		CA, AZ ONLY 0.5 to 1 lb.	CA, AZ ONLY 1 lb. to 2 acres up to 1 lb. to 1 acre.		
	Flea-hopper	0.25 lb.	1 lb. to 4 acres		
	Cotton Aphid, Whitefly	0.5 to 1 lb.	1 lb. to 2 acres up to 1 lb. to 1 acre		
	Army-worms (excluding Beet Army-worm), Cabbage looper	1 lb.	1 lb. to 1 acre		

CROPS	INSECTS	AMOUNT* ACEPHATE 90 SOLUBLE PER ACRE	ACRES PER LB. ACEPHATE 90 SOLUBLE	FURTHER USE INSTRUCTIONS**	PHI
	<p>Bollworm, Tobacco Budworm, Larvae, Adults</p> <p>Eggs/ DEAD- HATCH</p>	<p>E. OF ROCKIES 0.5 TO 1 LB.</p> <p>CA, AZ ONLY 1 LB.</p> <p>0.25 to 0.5 lb.</p>	<p>E. OF ROCKIES 1 lb. to 2 acres up to 1 lb. to 1 acre</p> <p>CA, AZ ONLY 1 lb. to 1 acre</p> <p>1 lb. to 4 acres up to 1 lb. to 2 acres</p>	<p>Apply in water at 3 to 10 gals. spray per acre by air (minimum 5 gals per acre in CA, AZ) or 10 to 25 gals spray per acre by ground.</p> <p>Bollworm-Budworm Larvae: Early season light infestation use 1 lb. to 2 acres. Mid and late season moderate to severe infestations use 1 lb. to 1 acre. Apply when eggs appear and repeat at a 3 to 7 day interval.***</p> <p>Bollworm-Budworm Adults: Moths are controlled when they come in direct contact with spray particles during application. Moth kill is most likely to occur when application is made late in the evenings during periods of peak activity.</p> <p>Bollworm-Budworm Eggs: When spray particles come in direct contact with eggs, hatching larvae may be controlled as they consume and emerge from their egg casing. For DEADHATCH (contact ovicidal activity) and larval control, apply ACEPHATE 90 SOLUBLE in combination with insecticides (including synthetic pyrethroids in the following label section) registered for use on cotton at their recommended larvicidal label rates.</p> <p>Pink Bollworm-Apply when insects appear and repeat at 5 to 7 day intervals.***</p>	
	<p>Pink Bollworm (CA, AZ)</p>	<p>1 lb.</p>	<p>1 lb. to 1 acre</p>	<p>Bollworm-Budworm Eggs: When spray particles come in direct contact with eggs, hatching larvae may be controlled as they consume and emerge from their egg casing. For DEADHATCH (contact ovicidal activity) and larval control, apply ACEPHATE 90 SOLUBLE in combination with insecticides (including synthetic pyrethroids in the following label section) registered for use on cotton at their recommended larvicidal label rates.</p> <p>Pink Bollworm-Apply when insects appear and repeat at 5 to 7 day intervals.***</p>	

CROPS	INSECTS	AMOUNT* ACEPHATE 90 SOLUBLE PER ACRE	ACRES PER LB. ACEPHATE 90 SOLUBLE	FURTHER USE INSTRUCTIONS**	PHI
	Stinkbug, Cutworms	0.8 lb.	1 lb. to 1.25 acres	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. 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, AZ). Apply when insects first appear or damage is first noted and repeat as necessary to maintain control.***	
<p>* Where a rate range is given, use the higher rate where heavy insect pressure exists.</p> <p>** Do not feed gin trash to livestock or allow animals to graze on treated areas.</p> <p>***Do not apply more than 6.0 lbs. a.i. (6 2/3 lbs product) per acre per crop cycle. This includes the use of the product as an in-furrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment uses.</p>					

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COTTON TANK MIXES

PHI (pre-harvest interval) denotes number of days to harvest.

CROPS	INSECTS	AMOUNT ACEPHATE 90 SOLUBLE + Chlorpyrifos 4E PER ACRE	FURTHER USE INSTRUCTIONS	PHI
Cotton (CA, AZ)	Armyworms, Bollworms, Cabbage looper, Cotton Aphid, Cutworms, Flea- hopper, Grasshoppers, Pink Bollworm, Plant Bugs (Lygus, Mirids) Salt Marsh Caterpillar, Thrips, Tobacco Budworm, Whitefly	4.44 oz. to 17.77 oz. + 1 to 2 pts.	Do not feed gin trash or treated forage to livestock. Do not allow livestock to graze on treated areas. Acephate 90 Soluble can be mixed with Chlorpyrifos 4E 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.	21
<p>- Do not apply more than 6.0 lbs. a.i. of Acephate 90SP (6 2/3 lbs product) per acre per crop cycle. This includes the use of the product as an in-furrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment uses.</p>				

COTTON TANK MIXES

PHI (pre-harvest interval) denotes number of days to harvest.

CROPS	INSECTS	AMOUNT ACEPHATE 90 SOLUBLE + **SYNTHETIC PYRETHROID (fl. oz.) PER ACRE	PYRETHROID MAXIMUM LBS. ACTIVE PER SEASON	FURTHER USE INSTRUCTIONS	PHI
Cotton	Bollworm, Tobacco Budworm, Cabbage Looper, Plant bugs, Thrips, Fleahoppers, Pink Bollworm (CA,AZ), Aphids, Whitefly, Cotton Leaf Perforator, Fall Armyworm, Cutworms, Stink Bugs, Sweet Potato Whitefly,	ACEPHATE 90 SOLUBLE 1 lb. to 2 acres up to 1 lb. to 1 acre		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 on treated areas. Stinkbugs and Cutworms: Use ACEPHATE 90 SOLUBLE at 1 lb. to 1.25 acres. All applicable directions, restrictions and precautions on the EPA registered labels are to be followed. Acephate 90 SOLUBLE can be mixed with Pydrin 2.4EC, Asana 1.9EC, Asana XL, Capture 2EC, Baythroid 2EC, Karate 1E, Ambush 2EC, Pounce 3.2EC, Ammo 2.5EC, Cymbush 3EC, Scout 0.3EC, or Scout X-TRA, 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.	21
		PYDRIN 2.4 EC, 5.3-10.67	2.0		
		or	0.5		
		ASANA 1.9 EC, 1.4 - 3.4*	0.5		
		or	0.5		
		ASANA XL, 3.9 - 9.6*			
		or	0.5		
		CAPTURE 2EC, 1.3 - 6.4	0.89		
		or			
		BAYTHROID 2EC, 1.6 - 3.2	0.2		
		or			
		KARATE 1E, 3.2 - 5.12 (except CA)	3.0		
		or			
		AMBUSH 2EC, 6.4 - 12.8	3.0		
or					
POUNCE 3.2EC 2 - 8*	1.0				
or					
AMMO 2.5EC, 2 - 5*	1.0				
or					
CYMBUSH 3EC 1.7 - 2.56*	0.19				
or					
SCOUT 0.3EC 6.4 - 8 (except CA)	0.19				
or					
SCOUT X-TRA 2.13 - 3.33 (Except CA)					

- Do not apply more than 6.0 lbs. a.i. of Acephate 90SP (6 2/3 lbs product) per acre per crop cycle. This includes the use of the product as an in-furrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment uses.

*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.

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

CROPS	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS
Cotton	Thrips, Cotton Aphids, Black (Greasy) Cutworm	2.5 to 3.25 oz.	Apply 2.5 to 3.25 oz. ACEPHATE 90SP 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 90SP and mix thoroughly with a stick. Add the remainder of the seed to the planter box and the additional required amount of ACEPHATE 90SP followed by thorough mixing. For improved mixing, premix seed with ACEPHATE 90SP in a suitable container, then pour treated seed into planter box. Loss of ACEPHATE 90SP 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.
- Do not apply more than 6.0 lbs. a.i. of Acephate 90SP (6 2/3 lbs product) per acre per crop cycle. This includes the use of the product as an in-furrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment uses.			

COTTON IN-FURROW APPLICATION

CROPS	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	ACRES PER LB. ACEPHATE 90SP	FURTHER USE INSTRUCTIONS
Cotton	Aphids, Thrips, Black (Greasy) Cutworm	0.56 to 1.1 lbs. (.5 to 1 lb active)	1 lb. to 1.8 up to 1 lb. to .9 acres	Refer to ACEPHATE 90SP conversion chart before making product application.
- Do not apply more than 6.0 lbs. a.i. of Acephate 90SP (6 2/3 lbs product) per acre per crop cycle. This includes the use of the product as an in-furrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment uses.				

ACEPHATE 90 SOLUBLE CONVERSION CHART

LB. ACTIVE	LBS. ACEPHATE 90	OZ. ACEPHATE 90
0.5	0.56	9.0
0.6	0.67	10.7
0.75	0.83	13.3
0.9	1.0	16.0
1.0	1.1	17.6

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Apply 0.56 to 1.1 lbs. ACEPHATE 90 SOLUBLE in 3 to 5 gals. of water per acre as an in-furrow spray.

NOTE: For the Blacklands of Texas use only the 1.1 lbs. ACEPHATE 90 SOLUBLE rate (17.6).

ACEPHATE 90 SOLUBLE can be mixed with fungicides that are sprayed in-furrow 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 ensure 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.

CRANBERRY

Cranberry - Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 90SP PER ACRE	REMARKS	DAYS TO HARVEST
Foliar By Ground or Sprinkler: Sufficient water to give thorough coverage By Air: Minimum of 2 gals/A of spray	Cranberry Blossom Worm Cranberry Cutworm Gypsy Moth False Armyworm Fireworms Spanworms Sparganothis	1.1 lb. (17.6 oz.)	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 any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.	90
USE PRECAUTIONS: -Note: Limit one application per growing season. Do not apply more than 1.1 lb./A (1.0 lb. ai) per season. -Do not apply from start of bloom until all berries set.				

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 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 manually or automatically 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 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 speeds favors drift beyond the area intended for treatment.

Solid Set System: Apply specified dosage for the entire length 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 application. 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 dosages 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 pesticide 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 recommended 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

Head Lettuce (crisphead type only)
Recommendation for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 90SP PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 10 to 60 gals/A of spray broadcast By Air: Minimum of 5 gals/A of spray	Aster Leafhopper Green peach Aphid	0.5 to 1.1 lb. (8 to 17.6 oz)	Repeat applicaton as necessary to maintain control.*	21 Spring, Summer, and early Fall crops in all areas, Winter crops in Florida and Texas, late Fall crops in Arizona and Winter crops in Arizona and California
	Armyworms (excluding Beet Armyworms) Cabbage Looper	1.1 lb.		
Use Precautions: *Do not apply more than 2.2 lbs/A (2 lbs. ai) per season -Do not feed trimmings 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.				

18/40

MINT
Mint - Peppermint and Spearmint -
Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 90SP PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 20 to 100 gals/A of spray broadcast By Air: Minimum of 5 to 20 gals/A of spray	Alfalfa Looper Aphids Cutworms	1.1 lb. (17.6 oz)	Apply when eggs or insects first appear. Make one repeat application, if necessary to maintain control.*	14
FOLIAR By Ground: 40 to 100 gals/A of spray broadcast	Strawberry Root Weevil Adult Black Vine Weevil Adult	1.1 lb. (17.6 oz)	Strawberry and Black Vine Weevil: For control, apply in water in a minimum of 40 gals. spray per acre 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 10 to 14 days apart may be necessary to reduce heavy infestations.	14
Use Precautions For All Application Methods: *Do not apply more than 2.2 lbs/A (2 lbs. ai) per season. -Do not graze treated areas.				

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NON-BEARING CITRUS - RECOMMENDATIONS FOR USE IN AGRICULTURAL SETTINGS (Newly Planted Groves)

Non-Bearing Citrus - Recommendations for Use

General Use Precautions: -Do not graze treated areas. -DO NOT HARVEST citrus for one year after treatment.			
APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 90SP PER ACRE	REMARKS
FOLIAR: By Ground: 100 to 200 gals/A Spray	Aphids Grasshoppers Katydid Mealybugs Orangedogs Plantbugs Thrips Whiteflies (except Sweet potato/Silverleaf)	0.5 lb. (8 oz)	Repeat application as necessary to maintain control.
	Citrus Black fly*	0.5 to 0.8 lb. (8 to 12.8 oz)	Apply when eggs or insects first appear. Use the high rate when a heavy infestation is present. Repeat at 7 to 10 day spray intervals.
	Ants - including Imported Fire Ants and Harvester Ants*	0.8 lb. (12.8 oz)	Repeat application as necessary to maintain control.
Spray individual juvenile or non-bearing citrus 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.			
SOIL MOUND TREATMENT DRENCH METHOD	Ants-including Imported Fire Ants and Harvester Ants*	0.8 oz/5 gals.	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. Repeat as necessary to maintain.

*Not registered in CA for control of Citrus Blackfly and Harvester Ants

NON-CROP AREAS

Non-Crop Areas - Field Borders, Fencerows, Roadsides, Ditchbanks, Borrow Pits - Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 90SP PER ACRE	REMARKS
FOLIAR By Ground: 10 to 20 gals/A of Spray By Air: 1 to 5 gals/A of Spray (minimum of 5 gals/A in CA)	Grasshoppers	0.28 lb. (4 oz.)	For Early to mid-season application. Use the higher volume when spraying dense foliage. An approved drift retardant may be added to aid in controlling drift and reducing evaporation of aerial sprays.

USE PRECAUTION:

-Do not graze or feed vegetation cut from treated areas.

NON-CROP AREAS-WASTELAND - Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 90SP PER ACRE	REMARKS
FOLIAR By Ground: 10 to 20 gals/A of Spray By Air: 0.5 gal/A of Spray (minimum of 5 gals/A in CA)	Black Grass Bugs Grasshoppers Mormon Cricket	1.6 oz. To 2.2 oz.	Use the higher volume when spraying dense foliage. An approved drift retardant may be added to aid in controlling drift and reducing evaporation of aerial sprays.

USE PRECAUTION:

-Do not make more than one application per season.
-Do not graze or feed vegetation cut from treated areas.

PEANUTS

Peanuts - Recommendations for Use

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 90SP PER ACRE	REMARKS	DAYS TO HARVEST
<p>FOLIAR</p> <p>By Ground: 10 to 50 gals/A of spray.</p> <p>By Air: 5 to 10 gals/A of spray.</p>	<p>Grasshoppers</p>	<p>0.25 to 0.5 lb. (4 to 8 oz)</p>	<p>Apply when eggs or insects first appear.</p> <p>Repeat application as necessary to maintain control.*</p> <p>ACEPHATE 90SP can be tank mixed with registered atracking and early post emergence peanut herbicides, 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.</p>	<p>14 (of digging)</p>
<p>USE PRECAUTIONS:</p> <ul style="list-style-type: none"> -Do not feed treated forage or hay to livestock. -Do not allow animals to graze on treated areas. *Do not apply more than 4.4 lbs/A (4 lbs. a.i.) per season. This includes the use of Acephate 90SP on peanuts as a foliar spray in addition to the planterbox seed treatment use. 				

NOTE: 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 powders 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 that cannot be remixed readily, MICRO FLO 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.

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 90SP PER ACRE	REMARKS
PLANTER BOX SEED TREATMENT APPLICATION (HOPPER BOX)	Thrips	3.5 oz. DO NOT apply more than 3.5 oz. Acre.	Apply ACEPHATE 90SP at a rate of 3.5 oz. Per 100 lbs. of peanut seed in the planter box as a dry powder. Even coverage of seed is required for acceptable insect control. DO NOT attempt to mix ACEPHATE 90SP with the seed peanuts by stirring or other mechanical application. Such action will result in unacceptable damage to seed prior to planting. Do not use treated seed for food or feed.
<p>USE PRECAUTIONS: Do not apply more than 4.4 lbs/A (4.0 lbs. a.i.) per crop cycle. This includes the use of ACEPHATE 90SP on peanuts as a foliar spray in addition to the peanut planterbox seed treatment use.</p>			

Mixing: this procedure for application of ACEPHATE 90SP to peanut seed must be followed to ensure complete and adequate coverage:

Step 1: Fill planter box 1/3 full of seed. Apply 1/3 total amount of ACEPHATE 90SP evenly over the surface of the peanuts.

Step 2: Fill planter box 2/3 full of seed. Apply 1/3 of the total amount of ACEPHATE 90SP evenly over the surface of the peanuts.

STEP 3: Fill planter box with remaining seed. Apply 1/3 of total required amount of ACEPHATE 90SP evenly over the surface of the peanuts.

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PEPPERS

Peppers - Bell - Recommendations for Use

BELL				
APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 90SP PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 25 to 150 gals/A of spray. By Air: minimum of 3 gals/A of spray (minimum of 5 gals/A in CA)	Grasshoppers	0.25 to 0.5 lb. (4 to 8 oz.)	Apply when eggs or insects first appear.	7
	Cabbage Looper Green Peach Aphid Tobacco Hornworm	0.5 to 1.1 lb. (8 to 17.6 oz)	Repeat application as necessary to maintain insect-pest populations below economically damaging numbers.*	
	European Corn Borer	0.8 to 1.1 lb. (12 to 17.6 oz)		
USE PRECAUTIONS: -*Do Not apply more than 2.2 lbs./A (2 lbs. ai) per season.				

Peppers - Non-Bell - Recommendations for Use

NON-BELL FOR USE IN MIDWESTERN, EASTERN STATES AND PUERTO RICO ONLY				
APPLICATION METHOD	PESTS CONTROLLED	RATES OF ACEPHATE 90SP PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 40 to 150 gals/A of spray.	Aphids	0.5 lb. (8 oz)	Repeat at 7 to 10 day spray intervals as necessary.*	7
USE PRECAUTIONS: -*Do Not apply more than 1.1 lbs./A (1.0 lb. ai) per season.				

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TOBACCO
TOBACCO TRANSPLANT WATER APPLICATION
Recommendations for Use

CROP	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS
Tobacco	Cutworms Flea Beetle Green Peach Aphid Potato Tuberworm Tobacco Aphid Tobacco Thrips	0.8 lb. (12 oz)	<p>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 90SP.</p> <p>Apply in a minimum of 100 gals. of transplant water per acre. ACEPHATE 90 should be premixed in water to form a slurry solution prior to adding the transplant water tank.</p> <p>Do not apply more than 0.8 lb. ACEPHATE 90SP per acre as a transplant water application as some phytotoxicity may occur.</p> <p>Do not apply more than 4.4 lbs/A (4 lbs a.i.) per season. This includes the use of ACEPHATE 90SP in transplant water, plant bed, soil, float bed (greenhouse) and foliar applications.</p>

TOBACCO FOLIAR APPLICATION - Recommendations for Use

TOBACCO FOLIAR APPLICATION (EXCEPT CA)				
CROP	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS	PHI
Tobacco (Flue- Cured, Air Cured, Dark Fire Cured)	Grasshoppers	.25 - 0.5 lb. (4 to 8 oz)	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	.5 lb. (8 oz)		
	Tobacco Aphid, Vegetable Weevils, Stinkbugs	0.25 to 0.8 lb. (8 to 12.8 oz.)	Apply on a 7 day schedule as needed.	
	Budworm, Cabbage Looper, Cutworm Japanese Beetle	0.8 lb. (12.8 oz)	Do not apply more than 4.4 lbs/A (4 lbs. ai) per season. This includes the use of ACEPHATE in transplant water, plant bed, soil, float bed (greenhouse) and foliar applications.	

TOBACCO PLANT BED APPLICATION
Recommendations for Use

TOBACCO PLANT BED APPLICATION (EXCEPT CA)			
CROP	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS
Tobacco Bed Treatment	Flea Beetle, Green Peach Aphid, Tobacco Aphid, Cutworm	0.8 lb. (12.8 oz)	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 ensure thorough coverage. Do not apply more than 4.4 lbs./A (4 lbs. ai) per season. This includes the use of ACEPHATE 90SP in transplant water, plant soil bed, soil, float bed (greenhouse and foliar applications).

TOBACCO GREENHOUSE APPLICATION - Recommendations for Use

TOBACCO GREENHOUSE APPLICATION (EXCEPT CA)			
CROP	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS
Tobacco	Cutworm, Flea beetle, Green Peach Aphid, Tobacco Aphid	0.8 lb. (12.8 oz)	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 ensure thorough coverage. NOTE: Floatbed water should be disposed of in the transplanted field either as transplant water or foliar spray. Do not apply more than 4.4 lbs/A (4.0 lbs. a.i.) per season. This includes the use of ACEPHATE in transplant water, plant bed, soil, float bed (greenhouse) and foliar applications.

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TOBACCO SOIL APPLICATION - Recommendations for Use

TOBACCO SOIL APPLICATION (EXCEPT CA)				
CROP	INSECTS	AMOUNT ACEPHATE 90SP	FURTHER USE INSTRUCTIONS	PHI
Tobacco	Ants, including Imported Fire Ants and Harvester Ants	Mound Treatment Drench Method: Mix 0.8 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. Treat maximum of 13 mounds per acre. Do not treat more than once per season. Do not apply more than 4.4 lbs/A (4.0 lbs. a.i.) per season. This includes the use of ACEPHATE in transplant water, plant bed, soil, float bed (greenhouse) and foliar applications.	3

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops rendered unfit for sale, use or consumption.

SMALL VOLUME SPRAY EQUIPMENT

PREPARATION OF ACEPHATE SPRAY MIX USING A 16 OZ MEASURING CUP

LABEL RECOMMENDATION ACEPHATE 90SP IN 100 GALS WATER	EQUIVALENT ACEPHATE 90SP IN 20 GALS WATER	EQUIVALENT ACEPHATE 90SP IN GAL WATER (TSP/GAL)
.28 lb	.9 oz	.4
.5 lb	1.6 oz	.83
.8 lb	2.5 oz	1.25
1.1 lb	3.5 oz	1.7

SPECIALTY USES NON CROP AREAS

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP	TIME OF APPLICATION	RECOMMENDED APPLICATION
Non-Crop Areas	Ants, Including Imported Fire Ants and Harvester Ants	Mound Treatment- Dry Method: Evenly distribute 1 to 2 teaspoons over the mound. Drench Method: Mix 0.83 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.	Apply the specified amount of ACEPHATE 90SP as directed. Grass in treated areas may be injured. Do not treat mound more than once per season.

SPECIALTY USES - NON CROP AREAS

Specialty Uses - Container Grown Nursery Stock

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 100 GALS	TIME OF APPLICATION	RECOMMENDED APPLICATION
Container Grown Nursery Stock (Arbor- vitae, Azalea, Camelia, Rhodod- endron, Roses, Viburnum, Yew)	Black Vine Weevil, Straw- berry Root Weevil	0.8 (12.8 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 90SP per 100 gals. of solution so as to thoroughly drench the root system.
	Ants, including Imported Fire Ants and Harvester Ants	0.8 (12.8 oz)	Apply as needed to control the pest.	

TREES & SHRUBS

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP/100 GALS.	TIME OF APPLICATION	RECOMMENDED APPLICATION
Trees and Shrubs (except Flowering Crab-apple, see below)	Aphids, Bagworms, Birch Leaf-miner, Tent Caterpillar,* Lace Bugs, Leaf-rollers	.28 lb (4.5 oz)	As the insects begin to appear.	Apply the specified amount of ACEPHATE 90SP in 100 gals. water with a hydraulic sprayer. The addition of a suitable sticker improves control of Gypsy Moth larvae. *Mist blower application. Adjust rates to 1.3 lbs. per 100 gals. water for Gypsy Moth control and 1 lb. per 100 gals. water for Tent Caterpillar control.
	Douglas Fir Tussock, Moth Larvae, Gypsy Moth Larvae*, Webworms	.5 lb (8 oz)	As insects begin to appear.	Do not apply to Huckleberry, Balm of Gilead, Cottonwood, Lombardy Poplar and Viburnum suspensum.
	Scales (Crawlers)	.5 lb (8 oz)	As crawlers begin to appear. Repeat applications, at a 2 week or more interval, may be necessary where there is continuous crawler production.	Nursery crops. Before treating large plantings, spray only a few plants and observe two weeks for phytotoxicity.
	Ponderosa Pine Needle Miner	.5 lb (8 oz)	Time of application is important. Consult your Farm Advisor or County Extension Agent.	Apply the specified amount of ACEPHATE 90SP in 100 gals. water with a hydraulic sprayer as a full coverage spray
	Grass-hoppers	.5 lb (8 oz)	As the grass-hoppers begin to appear	
	California Oakworm, Cankerworms (Spring & Fall)	.28 - 0.5 lb (4.5 to 8 oz)	As the insects begin to appear. Use the higher amount when the larger larvae are present.	Apply the specified amount of ACEPHATE 90SP in 100 gals. water with a hydraulic sprayer.

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP/100 GALS.	TIME OF APPLICATION	RECOMMENDED APPLICATION
	Nant- ucket Pine Tip Moth Larvae	0.75 lb (12.8 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	0.8 lb (12.8 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 90SP in 100 gals. water with a hydraulic sprayer as a full coverage spray.
	Box Elder Bugs, Sawflies, Budworms, Leaf- hoppers	0.8 lb (12.8 oz)	As the insects begin to appear.	
	Japanese Beetle	1.1 lbs (17.6 oz)	As the Japanese Beetles begin to appear. Repeat applications, at 2 week intervals, may be necessary.	
	Elm Leaf Beetle (larvae)	1.1 lb (17.6 oz)	As the larvae begin to appear. ACEPHATE will not prevent Elm Leaf Beetle eggs from hatching.	
Douglas Fir, Christ- mas Trees	Douglas Fir Needle Midge	0.5 lb (8 oz) (0.5 lb. per acre)	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 90SP in not less than 2 gals. of spray per acre by air or in 100 gals of spray per acre by ground.

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP/100 GALS.	TIME OF APPLICATION	RECOMMENDED APPLICATION
Flower- ing Crab- apples	Aphids, Tent Cater- pillars, Leaf- rollers	.28 lb (4.5 oz)	As the insects begin to appear.	Apply the specified amount of ACEPHATE 90SP 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, Malusflor- ibunda, Pink Perfection, Red Wine and Snow Cloud.
Crepe Myrtle	Aphids	2 to 3 level Tbs. (0.5-.8 oz) per 1 Tbs. of water.	As aphids begin to appear.	Make a paint-on slurry by mixing the specified amount of ACEPHATE 90SP with 1 Tablespoon of water. Remove the loose bark from the trunk areas to be treated. Completely paint 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 (Golf Course and Sod Farm Turf Only) and Fire Ant Mound and Spot Treatment

DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS.
 DO NOT FEED TREATED GRASS TO LIVESTOCK.
 NOT USE USE ON RESIDENTIAL LAWNS.

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 1,000 SQ FT	TIME OF APPLICATION	RECOMMENDED APPLICATION
Commerci al Turf- Grass (Golf Course and Sod Farm only)	Fall Armyworm, Yellow Striped Armyworm, Southern Armyworm	.4 to 1.0 oz. (1.1 to 2.75 lbs per acre)	As the insects appear. A repeat application at 2 week intervals may be necessary.	Apply the specified amount of ACEPHATE 90SP per 1,000 sq ft. Use a minimum of 5 gals water per 1,000 sq ft to obtain good coverage.
	Cutworm	1 to 2 oz (2.75 to 5.5 lbs per acre)		
	Chinch bugs	1 to 2 oz (2.75 to 5.5 lbs per acre)	Apply as needed for adult population knockdown (10 to 14 days)	
	Fleas	1 to 2 oz (2.75 to 5.5 lbs per acre)	Apply as needed for knockdown (7 to 10 days) only of existing adult populations.	
	Sod Webworm (Crambus spp)	0.4 to 0.83 oz (1.1 to 2.25 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.	
	Leaf- hopper	0.83 oz (2.25 lbs per acre)	As the leafhoppers begin to appear. A repeat application at 1 week intervals may be necessary.	

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 1,000 SQ FT	TIME OF APPLICATION	RECOMMENDED APPLICATION
	<p>Mole Crickets (Except CA)</p> <p>Spittlebug (Except CA)</p>	<p>0.83 to 1.6 oz</p> <p>(2.25 - 4.3 lbs per acre)</p>	<p>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.</p>	<p>Apply the specified amount of ACEPHATE 90SP per 1,000 sq ft. Use 1 to 15 gals water per 1,000 sq ft to obtain good coverage.</p> <p>Apply during late afternoon or early evening hours and after an irrigation. Do not irrigate after application.</p> <p>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 ACEPHATE 90SP. The following lemon-scented products have been shown to be effective flushing agents. Lemon Joy, Lemon Palmolive and Might Myrt Products Manufacturer-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.</p>
	<p>Greenbug (Schi- zaphis grami- nun), Grass- hoppers</p>	<p>.4 oz (1.1 lbs per acre)</p>	<p>Apply when insects or their damage first appears. Repeat as necessary. Application is not to be repeated at more than 1 week intervals.</p>	<p>Apply the specified amount of ACEPHATE 90SP per 1,000 sq ft. Use 4 to 15 gals water per 1,000 sq ft to obtain good coverage. Do not mow turfgrass for at least 24 hours after application.</p>

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 1,000 SQ FT	TIME OF APPLICATION	RECOMMENDED APPLICATION
	Black Turfgrass Ataenius (Except CA)	1.25 to 1.6 oz (3.4 to 4.3 lb per acre)	Apply when insects or their damage first appear.	Apply the specified amount of ACEPHATE 90SP per 1,000 sq ft. Use a minimum of 5 gals water per 1,000 sq ft. Irrigate lightly after application (not more than 0.5 inch) Use the higher rate for severe infestations.
Dichondra (Sod Farm and Golf Courses)	Cutworm, Flea Beetle, Southern Armyworm, Yellow Striped Armyworm	0.83 to 1.6 oz (2.25 to 4.3 lbs per acre)	As the insects appear. Repeat at 2 week intervals as necessary.	Apply the specified amount of ACEPHATE 90SP per 1,000 sq ft Use a minimum of 15 gals water per 1,000 sq ft to obtain good coverage.

MOUND TREATMENT OF FIRE ANTS IN TURFGRASS

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP	TIME OF APPLICATION	RECOMMENDED APPLICATION
Turf-grass	Imported Fire Ants and Harvester Ants	Mound Treatment - Dry Method: Evenly distribute 1 to 2 teaspoons over the mound. Drench Method: Mix .83 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.	Apply the specified amount of ACEPHATE 90SP as directed. Grass in treated areas may be injured. Do not treat mound more than once per season.

OUTDOOR AND PERIMETER SPRAY
NOT FOR USE ON RESIDENTIAL TURF GRASS

LOCATION	INSECTS	AMOUNT ACEPHATE 90SP PER GALLON	TIME OF APPLICATION	RECOMMENDED APPLICATION
Outdoor and Peri- meter area	Wasps	1.3 oz.	Treat early or late in the day, as wasps are generally less active during these times.	Apply the specified amount of ACEPHATE 90SP per each gallon of water used. Apply as a spot treatment to the nest, nest entrance, and surrounding areas where the wasps alight.
	Ants, including Imported Fire Ants and Harvester Ants, Crickets, Cock- roaches, Earwigs, Pillbugs	1.3 oz.	As the insects appear	Apply specified amount of ACEPHATE 90SP per each gallon of water used. 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 residual 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

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 100 GALS	TIME OF APPLICATION	RECOMMENDED APPLICATION
Chrysanth emums Daisies, Dahlias, Easter Lily, Glad- ioli, Gypos- ophila, Pachy- sandra, Peony, Roses, Sedum, Statice, Straw- flower, Yarrow, Zinnia	Aphids, Thrips, Lygus,	.5 lb (8 oz)	As insects begin to appear. Repeat applications may be necessary.	Apply the specified amount of ACEPHATE 90SP 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 lbs (17.6 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 90SP PER 100 GALS	TIME OF APPLICATION	RECOMMENDED APPLICATION
Roses	Leaf- rollers	.5 to .8 lb (8 to 12.8 oz)	As leafrollers begin to appear. Use the higher amount when the large larvae are present.	Apply the specified amount of ACEPHATE 90SP in 100 gals water with a hydraulic sprayer as a full coverage spray.
Foliage Plants, Orchids Anth- uriums, Cacti, Poin- settia	Aphids	.28 lb (4.5 oz)	As aphids begin to appear.	Apply the specified amount of ACEPHATE 90SP 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 verschaffeltii, Maranta leuconeura kerchoviana, Pachystachya lutea, Plectranthus australis, Polypodium aureus, Polystichum, Pteris ensifolmis, Tolmiea menziesii. Before treating large plantings spray only a few plants and observe 2 weeks for varietal phytotoxicity. Applications of ACEPHATE SC on Poinsettias after bract formation may result in phytotoxicity on certain varieties.
	Mealy- bugs, Thrips, White- flies	.5 lb (8 oz)	As the insects begin to appear. A repeat application, at a 2 week interval, may be necessary for control of mealybugs and whiteflies.	
	Scales (craw- lers)	.5 lb (8 oz)	As crawlers begin to appear. Repeat applications, at a 2 week or more interval, may be necessary where there is continuous crawler production.	

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 100 GALS	TIME OF APPLICATION	RECOMMENDED APPLICATION
	Sweet Potato White- flies, (except CA)	.28 lb (4 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 90SP 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	.5 lb (8 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 90SP 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, Dixie, 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.

Observe all precautions and limitations on labeling of all products used in mixture.

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.

MICRO FLO WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL THEREOF AND IS REASONABLY FIT FOR THE

PURPOSE STATED ON SUCH LABEL ONLY WHEN USED IN ACCORDANCE WITH THE DIRECTIONS FOR USE. IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. CROP INJURY, INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF MICRO FLO. IN NO CASE SHALL MICRO FLO BE LIABLE FOR THE CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER.

EXCEPT AS EXPRESSLY PROVIDED HEREIN, MICRO FLO MAKES NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE.

®AMBUSH - Reg. TM of ICI Agricultural Products for permethrin insecticide.

®AMMO - Reg. TM of FMC Agri Chemical Group for cypermethrin insecticide.

®ASANA - Reg. TM of E.I. duPont de Nemours & Co. for esfenvalerate insecticide.

®BAYTHROID - Reg. TM of Mobay Corp. for cyfluthrin synthetic pyrethroid.

®CAPTURE - Reg. TM of FMC Agri Chemical Group for bifenthrin insecticide miticide.

®CYMBUSH - Reg. TM of ICI Agricultural Products for cypermethrin insecticide.

®KARATE - Reg. TM of ICI Agrochemicals Co. U.K. for lambda-cyhalothrin insecticide.

®POUNCE - Reg. TM of FMC Agri Chemical Group for permethrin insecticide.

®PYDRIN - Reg. TM of E.I. duPont de Nemours & Co., Inc. for fenvalerate insecticide

®SCOUT - Reg. TM of Hoechst-Roussel Agri-Vet Co. for tralomethrin pyrethroid insecticide.

October 7, 2004

VIA FEDERAL EXPRESS
7919 5072 4102

Ms. Marilyn Mautz (PM14)
Registration Division
Office of Pesticide Programs (7504C)
U. S. EPA
1801 South Bell Street
Arlington, VA 22202

RE: Acephate 90 SP, EPA Reg. No. 51036-238

Dear Ms. Mautz:

Micro Flo Company would like to submit a Notification for the above mentioned product. The only change is the deletion of voluntary language on Page 1 as follows:

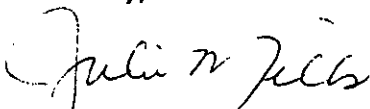
"THIS PRODUCT MAY NOT BE REFORMULATED, REPACKAGES OR RELABELED".

I have enclosed one highlighted copy and 5 label drafts.

If you have any questions, please don't hesitate to contact me at (901)432-5000.

Thanks for your help with this matter.

Sincerely,



Julie Mills
Regulatory Affairs Specialist

Enclosures

