

34704-880

08/16/2005

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505C)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number:
34704-880

Date of Issuance:
AUG 16 2005

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance: conditional

Name of Pesticide Product:
Acephate 90SP Insecticide

Name and Address of Registrant (include ZIP Code):

Loveland Products, Inc.
P.O. Box 1286
Greeley, CO 80632

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 EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide 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 of your product when the Agency requires all registrants of similar products to submit such data. Since the Interim Reregistration Eligibility Decision (IRED) and the accompanying Data Call In(DCI) have been issued for acephate and you have referenced a registered acephate product in support of your product, the registration issued for your product is conditioned on acceptable data being submitted for the supporting product in response to the DCI or new data being submitted to replace any unacceptable data. If the data are unacceptable and will not be replaced, the supporting product registration will be subject to being suspended. In that event, you will lose your formulator's exemption and become subject to providing these data or being suspended.

2. Make the following label changes before you release the product for shipment:

- a. Add the designation, "EPA Reg. No. 34704-880".
- b. Add the minimum repeat application interval restriction cited below to the tables for the ornamental, floral and foliage crops and the sod farm use. Refer to item two in the label corrections attached to our August 4, 2005 e-mail.
"The minimum spray interval for repeat applications is 3 days for 0.5 lbs. a.i./acre and less and 7 days for more than 0.5 lbs. a.i./acre."
- c. On page three in the ornamental trees and shrubs table for Douglas Fir and Christmas trees, correct 400 gallons to 200 gallons.
- d. On page three in the ornamental trees and shrubs table for flowering crabapples, correct 200 gallons to 400 gallons.

Signature of Approving Official:

Date:

AUG 16 2005

- e. In the greenhouse table on page four, correct the amount of the Tame product to reflect the change in dilution instructions from 100 to 400 gallons of water.
- f. In the amount column of the container grown table on page two, add "lb." after the 0.8 amount.
- g. Add a table of equivalents to cover those uses for which the instructions direct the user to apply a specified amount per 1,000 square feet and revise the application column for such uses to clarify the amount to be applied per 1,000 square feet. The current application directions to apply the specified amount of product per 1,000 square feet are confusing since the amount specified in the amount column is that which is to be applied per acre.
- h. For clarity, add the use restrictions for turf, sod farm, golf course and ornamentals which now appear on page one to the respective use tables.
- i. Remove the phrases "per 100 gals." and "per gallon" appearing in the heading of certain use tables and replace the dilution instructions in the application column with instructions to apply at the rate of 100 gallons of the spray solution per acre. As presently worded, these headings and dilution instructions conflict with the dilution instructions provided within the amount column of the various use tables.
- j. To avoid confusion to the user, remove the application rates which were previously given for the conventional packaged product leaving just the water soluble pouch dilution instructions. For example, the amount column for grasshoppers in the ornamental trees and shrubs table would then read as follows: "Use 1-1 lb water soluble pouch per 200 gallons of water."
- k. In the spray restrictions section on page two, remove the phrase "registrant to fill in blank with spray quality, e.g."

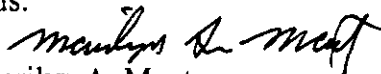
3. Submit the following revised forms corrected as described below before you release the product for shipment:

- a. Application form, EPA Form 8570-1 corrected to reflect the use and size of water soluble packaging.
- b. Confidential Statement of Formula, EPA Form 8570-4 corrected to reflect the correct chemical name of the active ingredient as it appears in the label ingredient statement.

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.


Marilyn A. Mautz
Biologist
Insecticide Rodenticide Branch
Registration Division (7504C)

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ACCEPTED
with COMMENTS
in EPA Letter Dated:

ACEPHATE 90SP INSECTICIDE

AUG 16 2005
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
34704-880



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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably 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. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL:
1-800-301-7976.

EPA REG. NO. 34704-

EPA EST. NO. 51036-GA-1

NET CONTENTS _____ LBS. (_____ KG)
IHT 08/05

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Causes eye irritation. Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist. Wash hands thoroughly after handling. Do not allow children or pets to come into contact with treated areas until sprays have dried.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Mixers, loaders, applicators and other handlers must wear: long-sleeved shirt and long pants, socks and shoes, chemical resistant gloves for all mixers and loaders and for applicators using handheld application equipment.
See engineering controls for additional requirements.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:
Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Engineering Controls

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

- wear the personal protective equipment required above for mixers/loaders, and
- be provided and must have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown the following PPE: coveralls, chemical resistant footwear and a NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter.

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

The use of human flaggers is prohibited.

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. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

This product is highly toxic to bees exposed to treatment and 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.

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.

Aerial applications to turf are prohibited

Do not apply using low-pressure hand wand equipment

Maximum Application Rates for Sod and Golf Course Turf: Limit 3 lbs ai/A for Sod Farms. Limit 4 lbs ai/A for Golf Course.

Pre-harvest Interval for Sod Farms: a 3-day pre-harvest interval (PHI) for harvesting sod.

Maximum Application Rates for specified Greenhouse and Outdoor ornamental: Limit 1 lb ai/A per 100 gallons of water (not to exceed 0.75 lbs ai/A for cut flowers and 1.0 lbs ai/A for all other ornamentals).

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.

CHEMIGATION

Application by chemigation is prohibited.

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 instruction and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls, chemical-resistant gloves made of any

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. For other uses, including golf courses and other non-agricultural areas, do not enter or allow others to enter until sprays have dried.

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 containers. 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.
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: Do not reuse the outer 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. For help with any spill, leak, fire or exposure involving this material, call Chemtrec — 1-800-424-9300.

Spray Drift Restrictions

Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, non-target crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals. For ground boom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy and when wind speed is 10 mph or less at the application site as measured by an anemometer. Use (registrant to fill in blank with spray quality, e.g. fine or medium) or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. For airblast applications, direct spray above foliage and turn off outward pointing nozzles at row ends and outer rows. Apply only when wind speed is 3 - 10 mph at the application site as measured by an anemometer outside of the treated area on the upwind side. For aerial applications, the boom width must not exceed 75% of the wingspan or 90% of the rotary blade. Use upwind swath displacement and apply only when wind speed is 3 - 10 mph as measured by an anemometer. Use medium or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground or the crop canopy. The applicator also must use all other measures necessary to control drift.

WATER SOLUBLE PACKAGING

Multiple Packaging

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

Single Packaging

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

Preparation of Spray Solution

To prepare spray solution, drop the unopened packet(s) of Acephate 90 WSP into a spray tank containing at least one-half the total quantity of water required. Direct water at the floating packet(s) and continue to add water with the agitator running until the spray volume is reached. Do not add any liquid fertilizers, micronutrients or adjuvants to the spray solution until after the packet and its contents have completely dissolved. Water soluble packet(s) should completely dissolve in approximately five minutes. Dissolution rate may be slowed by cold water, lack of agitation, or water containing high concentrations of boron or sulfur.

TABLE OF EQUIVALENTS

Rates of Acephate 90 SP Insecticide Per Acre	Acres Treated by a 1 lb. Packet
2.5 oz.	6.4
3.2 oz.	5
3.25 oz.	4.9
0.25 lb.	4
0.28 lb.	3.57
0.5 lb.	2
0.56 lb.	1.79
0.8 lb.	1.25
1.0 lb.	1

gals/A or Spray By Air: 1 to 5 gals/A of Spray (minimum of 5 gals/A in CA)

Use the right 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
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 1 - 1 lb water soluble pouch to treat 10 acres.	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. Do not allow animals to graze on treated areas.

SPECIALTY USES CONTAINER GROWN NURSERY STOCK

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 100 GALS.	TIME OF APPLICATION	RECOMMENDED APPLICATION
Container Grown Nursery Stock (Arborvitae, Azalea, Camelia, Rhododendron, Roses, Viburnum, Yew)	Black Vine Weevil, Strawberry Root Weevil	0.8 (12.8 oz) Use 1 - 1 lb water soluble pouch per 125 gallons of water	Application should be made by mid September for greenhouse stock and by mid-October for outdoor stock. Consult your local 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) Use 1 - 1 lb water soluble pouch per 125 gallons of water	Apply as needed to control the pest.	

TREES AND SHRUBS - ORNAMENTAL

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 100 GALS.	TIME OF APPLICATION	RECOMMENDED APPLICATION
Trees and Shrubs (except Flowering Crabapple, see below)	Aphids, Bagworms, Birch Leaf-miner, Tent Caterpillar, Lace Bugs, Leafrollers	0.28 lb (4.5 oz) Use 1 - 1 lb water soluble pouch per 400 gallons of water	As the insects begin to appear.	Apply the specified amount of ACEPHATE 90 SP 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	0.5 lb (8 oz) Use 1 - 1 lb water soluble pouch per 200 gallons of water	As the insects begin to appear.	*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.
	Scales (Crawlers)	0.5 lb (8 oz) Use 1 - 1 lb water soluble pouch per 200 gallons of water	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 Huckle berry, 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.
	Ponderosa Pine Needle Miner	0.5 lb (8 oz) Use 1 - 1 lb water soluble pouch per 200 gallons of water	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.
	Grasshoppers	0.5 lb (8 oz) Use 1 - 1 lb water soluble pouch per 200 gallons of water	As the grasshoppers begin to appear.	
	California Oakworm, Cankerworms (Spring & fall)	0.28-0.5 lb (4.5 to 8 oz) Use 1 to 2 - 1 lb water soluble pouches per 400 gallons of water	As the insects begin to appear. Use the higher amount when the larger larvae are present.	Apply the specified amount of ACEPHATE 90 SP in 100 gals. water with a hydraulic sprayer.
	Nantucket Pine Tip Moth Larvae	0.8 lb (12.8 oz) Use 1 - 1 lb water soluble pouch per 125 gallons of water	Time of application is important. Consult your Farm Advisor or County Extension Agent. Repeat applications will be required for subsequent generations.	

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PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 100 GALS.	TIME OF APPLICATION	RECOMMENDED APPLICATION
Trees and Shrubs (except Flowering Crabapples, see below) cont'd.	Root Weevil Adults	0.8 lb (12.8 oz) Use 1 - 1 lb water soluble pouch per 125 gallons of water	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, Leafhoppers	0.8 lb (12.8 oz) Use 1 - 1 lb water soluble pouch per 125 gallons of water	As the insects begin to appear.	
	Japanese Beetle	1.1 lbs (17.8 oz) Use 1 - 1 lb water soluble pouch per 100 gallons of water	As the Japanese Beetles begin to appear. Repeat applications, at 2 week intervals, may be necessary.	
	Elm Leaf Beetle (larvae)	1.1 lb (17.8 oz) Use 1 - 1 lb water soluble pouch per 100 gallons of water	As the larvae begin to appear. ACEPHATE will not prevent Elm Leaf Beetle eggs from hatching.	
Douglas Fir, Christmas Trees	Douglas Fir Needle Midge	0.5 lb (8oz) (0.5 lb per acre) Use 1 - 1 lb water soluble pouch per 400 gallons of water	Application should be made more than 2 weeks prior to bud burst. For additional pest management information, consult your county extension service.	Apply the specified amount of ACEPHATE 90 SP in not less than 2 gals. of spray per acre by air or in 100 gals. of spray per acre by ground.
Flowering Crabapples	Aphids, Tent Caterpillars, Leafrollers	0.28 lb (4.5 oz) Use 1 - 1 lb water soluble pouch per 200 gallons of water	As aphids begin to appear.	Apply the specified amount of ACEPHATE 90 SP 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 in Crabapple varieties: Hope, Ichonoshki, Malusfloribunda, Pink Perfection, Red Cloud and Snow Cloud.

COMMERCIAL TURFGRASS
(Golf course and Sod Farm Turf Only)

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

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 1000 SQ FT	TIME OF APPLICATION	RECOMMENDED APPLICATION
Commercial Turfgrass (Golf Course and Sod Farm only)	Fall Armyworm, Yellow Striped Armyworm, Southern Armyworm	0.4 to 1.2 oz. (1.1 to 3.3 lbs per acre) Maximum of 3 - 1 lb water soluble pouches 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	Golf Courses - 1 to 1.6 oz (2.75 to 4.35 lbs per acre)* Maximum of 4 - 1 lb. water soluble packages per acre. Sod Farms - 1 to 1.2 oz (2.75 to 3.3 lbs per acre)* Maximum of 3 - 1 lb. water soluble packages per acre.		
	Chinch bugs	Golf Courses - 1 to 1.6 oz. (2.75 to 4.35 lbs per acre)* Maximum of 4 - 1 lb water soluble packages per acre. Sod Farms - 1 to 1.2 oz. (2.75 to 3.3 lbs per acre)* Maximum of 3 - 1 lb water soluble packages per acre.	Apply as needed for adult population knock down (10 to 14 days)	

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 1000 SQ FT	TIME OF APPLICATION	RECOMMENDED APPLICATION
Commercial Turfgrass (Golf Course and Sod Farm only) cont'd.	Fleas	Golf Courses - 1 to 1.6 oz. (2.75 to 4.35 lbs per acre)* Maximum of 4 - 1 lb water soluble packages per acre. Sod Farms - 1 to 1.2 oz. (2.75 to 3.3 lbs per acre)* Maximum of 3 - 1 lb water soluble packages per acre.	Apply as needed for knockdown (7 to 10 days) only of existing adult populations.	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. 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 increasing the mole cricket contact with ACEPHATE 90SP. The following lemon-scented products have been shown to be effective flushing agents: Lemon Joy, Lemon Palmolive and Night Myrt Products Manufacturer-Base Pure Lemon Fragrance. The use rate for 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.
	Sod Webworm (Crampus spp)	0.4 to 0.83 oz (1.1 to 2.25 lbs per acre) Maximum of 2 - 1 lb water soluble pouches per acre.	As sod webworms begin to appear. Use the higher amount when quick knock down is needed or with heavy infestations. Repeat application may be necessary. Do not repeat at more than 1 week intervals.	
	Leafhopper	0.83 oz (2.25 lbs per acre) Maximum of 2 - 1 lb water soluble pouches per acre.	As the leafhoppers begin to appear. A repeat application at 1 week intervals may be necessary.	
	Mole Crickets (Except CA)	Golf Courses - 0.83 to 1.6 oz. (2.25 to 4.35 lbs per acre)* Maximum of 4 - 1 lb water soluble packages per acre.	As mole crickets begin to appear. For knock down of existing populations, more than one application may be required throughout the growing season. For heavy infestations, use the higher dosage rate.	
Commercial Turfgrass (Golf Course and Sod Farm only)	Spittlebug (Except CA)	Sod Farms - 0.83 to 1.2 oz. (2.25 to 3.3 lbs per acre)* Maximum of 3 - 1 lb water soluble packages per acre.		
	Greenbug (Schizaphis graminum)	0.4 oz (1.1 lbs per acre) Maximum of 1 - 1 lb water soluble pouch per acre.	Apply when insects of 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 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.
	Black Turfgrass Ateenius (Except CA)	1.25 to 1.6 oz (3.4 to 4.3 lb per acre) Use 3 to 4 - 1 lb water soluble pouches per acre Golf Course application only	Apply when insects of 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	Golf Courses - 0.83 to 1.6 oz. (2.25 to 4.35 lbs per acre)* Maximum of 4 - 1 lb water soluble packages per acre. Sod Farms - 0.83 to 1.2 oz. (2.25 to 3.3 lbs per acre)* Maximum of 3 - 1 lb water soluble packages 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.

* Maximum Application Rates for Sod and Golf Course Turf: Limit 3 lbs a/A for Sod Farms. Limit 4 lbs a/A for Golf Course.

ACEPHATE 90SP
EPA REG. NO. 34704-

OUTDOOR AND PERIMETER SPRAY
NOT FOR USE ON RESIDENTIAL TURE GRASS

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER GALLON	TIME OF APPLICATION	RECOMMENDED APPLICATION
Outdoor and Perimeter area	Wasps	1.3 oz. Use 1 - 1 lb. water soluble pouch in a minimum of 12 gallons of water	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, Cockroaches, Earwigs, Pillbugs	1.3 oz. Use 1 - 1 lb. water soluble pouch in a minimum of 12 gallons of water	As the insects appear	Apply the 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 the 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
Chrysanthemums, Daisies, Dahlias, Easter Lily, Gladiol, Gypsophila, Pachysandra, Peony, Roses, Sedum, Statice, Strawflower, Yarrow, Zinnia	Aphids, Thrips, Lygus	0.5 lb (8 oz) Use 1 - 1 lb water soluble pouch per 200 gallons of water per acre.	As insects begin to appear. Repeat application 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) Use 1 - 1 lb water soluble pouch per 200 gallons of water per acre.	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	Leafroller	0.5 to 0.8 lb (8 to 12.8 oz) Use 1 - 1 lb water soluble pouch per 200 gallons of water per acre.	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, Anthuriums, Cacti, Poinsettia	Aphids	0.28 lb (4.5 oz) Use 1 - 1 lb water soluble pouch per 400 gallons of water per acre.	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 verscatle-lil, Marantia leuconeura kerchovana, Pachystachya lutea, Pleacranthus australis, Polypodium aureus, Polycstichum, Pteris ensiformis, 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 in certain varieties.
	Mealybugs, Thrips, Whiteflies	0.5 lb (8 oz) Use 1 - 1 lb water soluble pouch per 200 gallons of water per acre.	As the insects begin to appear. A repeat application, at a 2 week interval, may be necessary for control of mealybugs and whiteflies.	
	Scales (crawlers)	0.5 lb (8 oz) Use 1 - 1 lb water soluble pouch per 200 gallons of water per acre.	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
Foliage Plants, Orchids, Anthuriums, Cacti, Poinsettia cont'd.	Sweet Potato Whiteflies (except CA)	0.28 lb (4 oz) Use 1 - 1 lb water soluble pouch per 400 gallons of water plus TAME 2.4 EC Spray 10 2/3 fl oz (0.2 lb ai) per acre.	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 plus ACEPHATE and TAME alone and the rotation instructions to avoid potential resistance.
Roses, Camations, Chrysanthemums	Aphids, Thrips	0.5 lb (8 oz) Use 1 - 1 lb water soluble pouch per 200 gallons of water per acre.	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 Camations and Chrysanthemums. Caution: Phytotoxicity has occurred on the following Chrysanthemum varieties: Albatross, Bonnie Jean, Dids, Garland, Gent, Iceberg, Pride, Showoff, Statesman, Tally Ho, Westward Ho, and Wild Honey. Before treating large 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.

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