81964-3	01/25/2	01/25/2006		
NUMITED STATES	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: 81964-3	Date of Issuance: JAN 252006	
	NOTICE OF PESTICIDE: <u>x</u> Registration Reregistration (under FIFRA, as amended)	Term of Issuance: cc Name of Pesticide Pro Acephate 90%	oduct:	
ChemStar LLC 21 Hubble Irvine, CA 926	of Registrant (include ZIP Code); 18 ag differing in substance from that accepted in connection with this registr			
Fungicide and Rodenticito protect health and the with the Act. The accept right to exclusive use of This product is you: 1. Subm requires all regis	ion furnished by the registrant, the above named pesticide is hereby registe de Act. Registration is in no way to be construed as an endorsement or rec- environment, the Administrator, on his motion, may at any time suspend tance of any name in connection with the registration of a product under the the name or to its use if it has been covered by others. Is conditionally registered in accordance with FIF it and/or cite all data required for registration of strants of similar products to submit such data.	commendation of this prod or cancel the registration o his Act is not to be constru RA sec. 3(c)(7)(A your product whe	Luct by the Agency. In order f a pesticide in accordance ed as giving the registrant a A) provided that en the Agency	
Call Ins (DCIs) I in support of you being submitted replace any unac product registrat	the Interim Reregistration Eligibility Decision (Il nave been issued for acephate and you have refer ar product, the registration issued for your product for the supporting product in response to the DC ceptable data. If the data are unacceptable and w ion will be subject to being suspended. In that ev data or being suspended.	enced a registered et is conditioned of I or new data bei ill not be replace	d acephate product on acceptable data ng submitted to d, the supporting	
registrants in De	ata requirements for the reregistration of acephat cember of 2002 (product specific) and in January e IRED. A copy of the data requirements list tak	y of 2003 (generic	c) in conjunction	
2. Subm Notice.	it the data listed below within 18 months from the	e date of the issu	ance of this	
characteristics st	nc-year storage stability study (guideline no. 830 udy (830.6320). Observations are recommended onducted simultaneously.	).6370) and corro I at 0, 3, 6, 9 and	sion 12 months and the	
Signature of Approving (		Date:		
Man	ym & mount	JAN 2	2 5 2006	

EPA Form 8570-6

page 2 EPA Reg. No. 81964-3

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3. Make the following label changes:

a. Add the designation, EPA Reg. No. 81964-3.

b. As indicated in item 20 of our previous letter dated December 22, 2005, the directions for all uses must reflect the fact that the product is contained in pre-measured water soluble packaging (WSP). Clarification of the application rates for the uses listed below is needed. For some cases, clarification of the rates may be accomplished by expanding on the current table of equivalents located on pages 6 and 7 of the label.

- The commercially treated cotton seed use on page 14

- The rates given in terms of tablespoons in the float bed and plant bed tobacco uses on page 24.

-The wasteland (non-crop) use on page 27.

- Several of the tree and shrub rates on pages 30 and 31.

- Some of the rates for golf course and sod farm turfgrass on pages 32 and 33.

- The out door and perimeter spray use on page 34.

- The outdoor floral and ground cover use for Japanese beetle on page 35.

- Some of the greenhouse rates on page 37.

c. On page 3, correct the bee caution statement by replacing "is" with "are" so that it reads as follows: "\_\_\_ and its degradate are \_\_".

d. Qualify the claims for use on container grown nursery stock; and trees and shrubs so that it is clear they are ornamental uses; i.e. "container grown ornamental nursery stock" and "ornamental trees and shrubs".

e. As specified in item 21 of our letter dated December 22, 2005, the advisory statements must be distinguished from the mandatory statements. Please refer to PR Notice 2000-5, a copy of which was enclosed with our above mentioned letter for guidance regarding such statements. The statements identified in that letter as examples have been corrected but the following statements remain to be corrected to be consistent with the Notice:

-The following statement on page 38 in the directions for use on green house floral and foliage plant crops: "Do not apply to Chrysanthemums and Roses with open flowers." An example of a corrected statement to reflect the advisory nature of this use instruction would be as follows: "Application to Chrysanthemums and Roses with open flowers will cause injury to the flowers".

-The following statement on pages 25 and 28 in the directions for ant mound treatments: "Do not apply under prolonged hot and dry conditions." An acceptable advisory statement (as it appears on the supporting product label) would be as follows: "Application under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest." Page 2 EPA Reg. No. 81964-3

On page 29 in the container grown nursery stock use section, remove the redundant statement "Allow a minimum of seven days between applications" which appears under the "General Instructions" heading. This use restriction already appears in this section under the more appropriate heading "Use Precautions".

It is understood that the Confidential Statement of Formula (CSF) dated November 15, 2005 replaces all other CSFs submitted for the product. It is further understood that the data matrix dated January 5, 2006 replaces all other data matrices submitted for the product.

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.

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

Enclosures: Stamped label Appendices E and F from acephate IRED

## [Water Soluble Film Label]

## Acephate 90% SP

ACTIVE INGREDIENT:	By Wt.
Acephate (O,S-Dimethyl acetylphosphoramidothioate)	
OTHER INGREDIENTS:	
TOTAL:	

### KEEP OUT OF REACH OF CHILDREN CAUTION

For First Aid, Precautionary Statements and Directions for Use, refer to the complete product labeling located on the outer container.

EPA Reg. No. 81964-

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ACCEPTED with COMMENTS in EPA Letter Dated:

JAN 25 2006

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## [Main Label]

# Acephate 90% SP

ACTIVE INGREDIENT:	By Wt.
Acephate (O, S-Dimethyl acetylphosphoramidothioate)	
OTHER INGREDIENTS:	
TOTAL:	

## KEEP OUT OF REACH OF CHILDREN CAUTION

#### FIRST AID

	FIRST ALD		
	Acephate is an organophosphate, cholinesterase inhibitor		
If swallowed:	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> </ul>		
	• 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.		
	• Call a poison control center or doctor for treatment advice.		
If on skin or clothing:	Take off contaminated clothing.		
3	• 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 by mouth-to-mouth, if possible.		
	• Call a poison control center or doctor for further treatment advice.		
	HOT LINE NUMBER		
Have the product contain	iner or label with you when calling a poison control center or doctor, or going for		
treatment. You may also	o contact 1-949-679-3535 for emergency medical treatment information.		
	NOTE TO PHYSICIAN		
Acephate is a cholinester	rase inhibitor. Measurement of blood cholinesterase activity may be useful in		
monitoring exposure but	decisions regarding treatment will usually need to be made before test results are		
	blinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (PROTOPAM) is		
also antidotal and may be	e used in conjunction with atropine but should not be used alone.		

**EPA Reg.** No. 81964-**EPA Est.** No. Manufactured for: ChemStarr LLC 21 Hubble Irvine, CA 92518

Net Weight:

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove and wash contaminated clothing before reuse. 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, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils and natural rubber  $\geq 14$  mils. 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 hand-held application equipment.

In addition, applicators using low-pressure hand wand application equipment must wear:

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

See engineering controls for additional requirements.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **Engineering Controls**

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

- Wear the personal protective equipment required above for mixers/loaders, and
- Be provided, 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 NIOSHapproved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter.

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

The use of human flaggers is prohibited.

#### **User Safety Recommendations**

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

#### **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

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.

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

#### GENERAL INFORMATION

Acephate 90% SP is a soluble powder used as an insecticide for control of pests on selected agricultural crops and in certain non-crop areas. The active ingredient in Acephate 90% SP is absorbed by plants via the roots and foliage to provide systemic control of feeding insects.

Because it is impossible to test this product for every combination of cultivar, soil and horticultural practice, it is the responsibility of the user to ensure that Acephate 90% SP is compatible with the variety or cultivar of the ornamental crop to which you are making an application under your specific conditions. Test the product on a limited scale and observe for phytotoxicity over a two-week period prior to making large-scale applications.

FAILURE TO FOLLOW THE INSTRUCTIONS IN THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, AND/OR ILLEGAL RESIDUES.

#### DIRECTIONS FOR USE

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

# READ THE 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 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 out of any waterproof material
- Shoes plus socks

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides [40 CFR Part 170]. The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

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

#### GENERAL USE GUIDELINES

- Insect pests are generally controlled more effectively by Acephate 90% SP through ingestion than by contact.
- Make repeat applications of Acephate 90% SP to maintain control only as directed.
- Do not apply in conditions that may result in possible drift to food, forage or other plantings that could be damaged, or the crops thereof rendered unfit for sale, use or consumption.
- Acephate 90% SP is NOT for indoor residential use.

#### TANK MIXES

- When tank mixing Acephate 90% SP with other products, read the entire label of each product being added to the mix and follow the most restrictive guidelines applicable to your situation.
- The user, applicator and/or application advisor accepts full responsibility for using this product with any other product or application method not expressly authorized by this label.

#### CHEMIGATION

- Only cranberries can have this product applied by chemigation (sprinkler irrigation) system.
- Do not apply to cranberries using any other type of irrigation system.

#### HAND WAND RESTRICTIONS

- Agricultural Uses Low-pressure hand wand equipment may *only* be used for mound treatment to control fire ants.
- Non-Agricultural Uses Low-pressure hand wand equipment may *only* be used for mound treatment to control fire ants and on ornamental trees, shrubs and floral plants only when grown for non-agricultural or non-commercial use.

• Low-pressure hand wand equipment may *not* be used for perimeter control or wasp treatments.

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NOTE: Refer to the Table of Equivalents below to calculate the number of packets to use.

#### **MULTIPLE PACKAGING**

This container holds water-soluble packets of Acephate 90% SP. Do not puncture or rupture the packets or expose them to any moisture, including handling with wet gloves, before placing the packets into the spray tank. To protect any remaining unused packets, be sure to store them in the original outer container.

#### PREPARATION OF SPRAY SOLUTION

- 1. Drop the unopened packet(s) of Acephate 90% SP into a spray tank containing at least one-half the total quantity of water required.
- 2. Start the agitator and continue adding water until the desired volume is reached by spraying directly at the packet(s) in order to dissolve the packet(s) and release the Acephate 90% SP.
- 3. Do not add any partners (such as liquid fertilizers, micronutrients or adjuvants) to the tank mix until *after* the packet(s) and its / their contents have completely dissolved.

**NOTE:** The water-soluble packet(s) should completely dissolve in approximately five minutes. The timing may be impacted (slowed) by insufficient agitation, cold water, or water containing high concentrations of sulfur or boron.

Acephate 90% SP Application Rate (per Acre)	Acres Treated by a Single 1/2 lb. Water Soluble Packet	
2.5 oz.	3.2	
3.2 oz.	2.5	
3.25 oz.	2.46	
0.25 lb.	2.0	
0.28 lb.	1.8	
0.5 lb.	1.0	
0.56 lb.	0.9	
0.8 lb.	0.6	
1.0 lb.	0.5	
1.1 lbs.	0:46	

#### TABLE OF EQUIVALENTS

Acephate 90% SP Application Rate (per Acre)	Acres Treated by a Single 1 lb. Water Soluble Packet
2.5 oz.	6.4
3.2 oz.	5.0
3.25 oz.	4.92
0.25 lb.	4.0
0.28 lb.	3.6
0.5 lb.	2.0
0.56 lb.	1.8
0.8 lb.	1.2
1.0 lb.	1.0
1.1 lbs.	0.92

Accephate 90% SP Application Rate (per Acre)	Acres Treated by a Single 2.5 lb. Water Soluble Packet
2.5 oz.	16
3.2 oz.	12.5
3.25 oz.	12.3
0.25 lb.	10
0.28 lb.	8.9
0.5 lb.	5
0.56 lb.	4.5
0.8 lb.	3.1
1.0 lb.	2.5
1.1 lbs.	2.3

#### SPRAY DRIFT MANAGEMENT

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, nontarget 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 fine 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 fine 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.

For overhead chemigation, apply only when wind speed is 10 mph or less.

The applicator also must use all other measures necessary to control drift.

#### **USE PRECAUTIONS:**

- Do not feed treated vines to livestock.
- Do not apply more than 2.2 lbs./acre (2 lbs. AI) per season.
- Do not harvest snapbeans (succulent or dry beans) for at least 14 days after last application.
- Lima beans may be harvested 24 hours after the last application (1 day preharvest interval)

#### **GENERAL INSTRUCTIONS:**

- Apply when eggs or insects first appear.
- Use the higher rates listed for severe infestations.

#### FOLIAR APPLICATIONS:

By Ground:Apply using 20 to 100 gals/A of spray.By Air:Apply in a minimum of 2 gals/A of spray.

PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
Fleahoppers Grasshoppers	0.25 to 0.5 lb. (4.5 to 8 oz.)	To maintain control, repeat at 3 day spray intervals as necessary.*
Aphids (excluding Black Bean Aphid) Bean Leaf Beetle Bean Leafroller Cabbage Looper Cutworms Green Cloverworms Leathoppers Mexican Bean Beetle Plantbugs (Lygus) Soybean Looper Thrips Whitefly (except Sweet Potato or Silverleaf Whitefly)	0.5 to 1.1 lbs. (8 to 17.6 oz.)	To maintain control: When applying 0.5 lbs. of active ingredient per acre, repeat at 3 day spray intervals as necessary.* When applying more than 0.5 lbs. of active ingredient per acre, repeat at 7 day spray intervals as necessary.*
Armyworms (excluding Beet Armyworm) Corn Earworm European Corn Borer	0.8 to 1.1 lbs. (12.8 to 17.6 oz.)	

#### CELERY

#### **USE PRECAUTIONS:**

- Trim and remove all celery tops before shipment for use.
- Do not use trimmed tops for feed or food.
- Do not apply more than 2.2 lbs. per acre (2 lbs. active ingredient) per season.
- Do not harvest celery for at least 21 days after last application.

#### **GENERAL INSTRUCTIONS:**

- Apply when eggs or insects first appear.
- Use the higher rates listed for severe infestations.

#### FOLIAR APPLICATIONS:

Ground:Apply using 50 to 100 gallons / acre of spray.By Air:Apply in a minimum of 5 gallons / acre of spray.

PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
		To maintain control:
Green Peach Aphid	0.5 to 1.1 lbs. (8 oz. to 17.6 oz.)	For applications of 0.5 lbs. active ingredient per acre, make repeat applications at 3 day intervals as necessary.*
Cabhaga Loopar	1.1 lbs.	For applications greater than 0.5 lbs. active ingredient per acre,
Cabbage Looper Fall Armyworms	(17.6 oz.)	make repeat applications at 7 day intervals as necessary.*
*Do not apply more than 2.2	2 lbs. per acre (2 lbs. active in	gredient) per season.

#### COLE CROPS Brussels Sprouts & Cauliflower

#### **USE PRECAUTIONS:**

- Do not feed trimmings to livestock or allow animals to graze in treated areas.
- Do not apply more than 2.2 lbs./A (2 lbs. a.i.) per season.
- Do not harvest for at least 14 days after last application.

#### **GENERAL INSTRUCTIONS:**

- Apply when eggs or insects first appear.
- Use the higher rates listed for severe infestations.

#### FOLIAR APPLICATIONS:

By Ground: Apply using 25 to 150 gallons/acre of spray.

By Air: Apply in a minimum of 5 gals/A of spray.

PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
Green Peach Aphid	0.5 to 1.1 lbs. (8 to 17.6 oz.)	To maintain control: For applications of 0.5 lbs. active ingredient per acre, make
		repeat applications at 3 day intervals as necessary.* For applications greater than 0.5 lbs. active ingredient per acre, make repeat applications at 7 day intervals as necessary.*
Cabbage Looper Diamondback Moth Larvae Imported Cabbage Worm	1.1 lbs. (17.6 oz.)	NOTE: Diamondback Moth Larvae have been found to develop resistance to various insecticides. Consult your local Agricultural Extension Agent for the current recommended best practices for dealing with this insect.

#### COTTON

#### **USE PREC**AUTIONS:

- Do not use treated seed for food or feed purposes or process for oil.
- Do not feed gin trash or treated forage to livestock.
- Do not allow animals to graze on treated areas.
- Do not harvest cotton for at least 21 days after last application.
- Do not apply more than 4 lbs. a.i. per season. This includes all uses of Acephate products and Acephate 90% SP on cotton.
- For aerial application in California and Arizona, application is limited to 1.0 lb. a.i./acre. For all other areas of the U.S., application is limited to 0.75 lb. a.i./acre by air.

#### **GENERAL** INSTRUCTIONS:

- Use the higher rates listed for severe infestations.
- Apply when eggs or insects first appear.

#### IN-FURROW (AT-PLANTING) APPLICATION:

By Ground: Apply using 3 to 5 gallons of spray per acre.

PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
Aphids (excluding Cotton Aphids in AZ and CA) Black (Greasy)	0.56 to 1.1 lbs.	Use only flat-fan nozzles. Verify that the nozzles are aligned to maximize spray deposition into the seed furrow.
Cutworm (Except CA) Thrips (including Western Flower Thrips)	NOTE: For the Blacklands Region of Texas, use the 1.1 lbs./acre application rate	Securely fasten spray-system tubing to furrow opener and check frequently to ensure proper positioning and operation. Acephate 90% SP can be mixed with fungicides that are sprayed in- furrow for disease control.

#### FOLIAR APPLICATION:

By Ground: Apply using 10 to 25 gallons of spray per acre.

By Air: Apply using 3 to 10 gallons of spray per acre. In Arizona and California, apply in a minimum of 5 gallons of spray per acre.

PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
Thrips (including Western Flower Thrips)	0.25 lb.	To maintain control, repeat applications at 3-day spray intervals as necessary.*
Plantbugs	0.25 to 1.0 lb.	Use the highest rate listed for Lygus adults that have migrated into cotton. To maintain control:
(Lygus)	(AZ & CA) 0.5 to 1.0 lb.	For applications of 0.5 lbs. or less active ingredient per acre, repeat applications at 3-day spray intervals as necessary.*
	:	For applications greater than 0.5 lbs. active ingredient per acre, repeat applications at 7-day spray intervals as necessary.*
Fleahopper	0.25 lb.	To maintain control, repeat applications at 3 day intervals as necessary.*

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PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
		Cotton Aphids have been found to develop resistance to various insecticides. Consult your local Agricultural Extension Agent for the current recommended best practices for dealing with this insect.
Cotton Aphids	0.5 ++ 1.0 1	To maintain control:
(excluding AZ and CA)	0.5 to 1.0 lb.	For applications of 0.5 lbs. or less active ingredient per acre, repeat applications at 3-day spray intervals as necessary.*
		For applications greater than 0.5 lbs. active ingredient per acre, repea applications at 7-day spray intervals as necessary.*
Whitefly		To maintain control:
(excluding Sweetpotato	0.5 to 1.0 lb.	For applications of 0.5 lbs. or less active ingredient per acre, repeat applications at 3-day spray intervals as necessary.*
Whitefly / Silverleaf Whitefly)		For applications greater than 0.5 lbs. active ingredient per acre, repea applications at 7-day spray intervals as necessary.*
Armyworms (excluding Beet Armyworm) Cabbage Looper	1.0 lb.	Apply when eggs appear and repeat applications using 7-day spray intervals.*
		Moths of budworm larvae are controlled by direct contact with spray. Death is most likely to occur when late evening applications are made
Bollworm Tobacco Budworm	0.5 to 1.0 lb. (East of Rockies)	Use 0.5 lbs./acre for mild infestations.
(Adults, Larvae)		Use 0.8 to 1.0 lbs./acre for moderate to severe infestations.
	1.0 lb.	To maintain control:
	(AZ & CA)	For applications of 0.5 lbs. or less active ingredient per acre, repeat applications at 3-day spray intervals as necessary.*
Eggs/ DEADHATCH <sup>®</sup>	0.25 to 0.5 lb.	For applications greater than 0.5 lbs. active ingredient per acre, repear applications at 7-day spray intervals as necessary.*
DEADNATCH		DEADHATCH <sup>®</sup> : Control of emerging larvae by consumption of treated egg casings.
Stinkbugs	0.8 lb.	Apply when eggs appear and repeat applications using 7-day spray intervals.*
Pink Bollworm (AZ & CA)	1.0 lb.	Apply when insects appear and repeat applications using 7-day spray intervals.*
		Apply by ground application; aerial applications are less effective, bu may be also used.
		For best results when making ground applications:
		• Apply in the evening
Cutworms	0.8 lb.	• Direct spray to the lower portion and base of plant.
		Begin applications when the insects first appear or damage is first noted.
		To maintain control, repeat applications using 7-day spray intervals as necessary.*

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#### COMMERCIALLY TREATED COTTONSEED (FOR USE BY COMMERCIAL SEED TREATERS ONLY)

Use Acephate 90% SP to reduce injury to cotton seedlings caused by the insects listed in the table below.

#### **USE PRECAUTIONS:**

- Acceptate 90% SP does not contain a dye. The Federal Seed Act and 21 CFR Chapter 1 Section 2.5 requires that all seed treated with this product must be colored to distinguish from, and prevent subsequent inadvertent use as food for man or feed for animals.
- Treated seed must not be used for, or mixed with food or animal feed, or processed for oil. Seed treated with Acephate 90% SP may be considered adulterated under state and federal laws if sold or shipped as food or feedstuffs. Seed commercially treated with Acephate 90% SP must be labeled as follows: "TREATED SEED. DO NOT USE FOR FOOD, FEED OR OIL."
- Observe all precautions and limitations on labeling of all products used in mixtures.

PESTS CONTROLLED	ACEPHATE 90% SP (PER 100 LBS. COTTONSEED)	EFFICACY	SPECIFIC INSTRUCTIONS
Thrips Cotton Aphids	7.1 oz.	Provides protection against Thrips and Cotton Aphids for up to three weeks after planting.	Acephate 90% SP can be tank mixed with most fungicide seed treatments commonly
Black (Greasy) Cutworm	7.1 oz.	Provides protection against Black (Greasy) Cutworm from planting through the 3 <sup>rd</sup> to 4 <sup>th</sup> leaf stage of development.	used. This product may also be applied as a separate treatment. When preparing the Acephate 90% SP, use sufficient water to provide complete seed coverage.

#### COTTON TANK MIXES

#### **USE PRECAUTIONS:**

- Always read all label directions when using any pesticide alone or in tank mix combinations. Follow the most restrictive labeling when using a tank mix.
- Do not use treated seed for food or feed purposes or process for oil.
- Do not feed gin trash or treated forage to livestock.
- Do not allow animals to graze on treated areas.
- Do not harvest cotton for at least 21 days after last application.
- Do not apply more than 4.4 pounds per acre (4 lbs. of active ingredient) per season. This includes all uses of Acephate 90% SP on cotton.
- For aerial application in California and Arizona, application is limited to 1.0 lbs. of active ingredient per acre. For all other areas of the U.S., application is limited to 0.75 lbs. of active ingredient per acre by air.

#### COTTON PEST CONTROL RESISTANCE MANAGEMENT

Consult your local agricultural extension agent for current best practices when controlling cotton pests, and in particular, when dealing with silverleaf whitefly control.

#### **GENERAL INSTRUCTIONS:**

- Use the higher rates listed for severe infestations.
- Apply when insects first appear or when damage is first noted.

#### FOLIAR APPLICATIONS:

By Ground: Apply using 10 to 25 gallons per acre of spray.

By Air: Apply using 3 to 10 gallons per acre of spray (minimum 5 gallons per acre in CA).

#### TANK MIXING:

- This product may be tank mixed with registered cotton herbicides under the following conditions:
  - The tank mix partners do not prohibit tank mixes;
  - The most restrictive of label limitations and precautions are observed; and,
  - No label dosage rates are exceeded.
- To determine physical compatibility of potential tank-mix partners with Acephate 90% SP:
  - 1. In a pesticide-safe container, pour the recommended proportions of each chemical with the same proportion of water as will be present in the chemical supply tank. NOTE: When mixing wettable powder or dry flowable formulations, add and disperse these first, then add liquid pesticides.
  - 2. Mix thoroughly and allow to stand for five minutes.
  - 3. If the combination remains mixed, or can be readily remixed, the mixture is considered physically compatible.

Whitefly (SilverleafDa(SilverleafDaWhitefly)DaArmyworms (excluding BeetArmyworm)BollwormCabbage Looper Cotton Aphid CutwormsFleahopper GrasshoppersPink BollwormBlawburg (Lugur	ephate 90% SP + unitol <sup>®</sup> 2.4 EC Spray	0.5 to 1.0 lb. + 10 2/3 to 16 fl. oz.	For applications of 0.5 lbs. or less active ingredient per acre, repeat applications at 3-day spray intervals as necessary.* For applications greater than 0.5 lbs. active ingredient per acre, repeat applications at 7-day spray intervals as necessary.* To maintain control: For applications of 0.5 lbs. or less active
(excluding Beet Armyworm) Bollworm Cabbage Looper Cotton Aphid Cutworms Fleahopper Grasshoppers Pink Bollworm Plantbugs (Lygus, Acc			
	ephate 90% SP + .orsban <sup>®</sup> 4E	0.28 to 1.1 lbs. + 1 to 2 pts.	<ul> <li>ingredient per acre, repeat applications at 3-day spray intervals as necessary.*</li> <li>For applications greater than 0.5 lbs. active ingredient per acre, repeat applications at 7-day spray intervals as necessary.*</li> <li>Special Instructions for Cutworms:</li> <li>Use 0.8 lb. / acre of Acephate 90% SP</li> <li>Apply by ground application; aerial applications are less effective, but may be also used.</li> <li>For best results when making ground applications: <ul> <li>Apply in the evening</li> <li>Direct spray to the lower portion and base of plant.</li> </ul> </li> </ul>

#### COTTON TANK MIXES WITH PYRETHROIDS

#### **USE PRECAUTIONS:**

- Always read and follow all label directions when using any pesticide alone or in tank mix combinations. Observe all restrictions and precautions that appear on all product labels. The most restrictive labeling applies when using a tank mix.
- Do not use treated seed for food or feed purposes or process for oil.
- Do not feed gin trash or treated forage to livestock.
- Do not allow animals to graze on treated areas.
- Do not harvest cotton for at least 21 days after last application EXCEPT when applying with Scout X-TRA. When tank mixing with Scout X-TRA, do not harvest cotton for at least 28 days after last application.
- Do not apply more than 4.4 lbs./A (4 lbs. a.i.) per season. This includes all uses of Acephate 90% SP on cotton.
- For aerial application in California and Arizona, application is limited to 1.0 lbs. of active ingredient per acre. For all other areas of the U.S., application is limited to 0.75 lbs. of active ingredient per acre by air.

#### COTTON PEST CONTROL RESISTANCE MANAGEMENT

Consult your local agricultural extension agent for current best practices when controlling cotton pests, and in particular when dealing with silverleaf whitefly control.

#### **GENERAL INSTRUCTIONS:**

- Use the higher rates listed for severe infestations.
- Apply when insects first appear or when damage is first noted.

#### FOLIAR APPLICATIONS:

By Ground: Apply using 10 to 25 gallons per acre of spray.

By Air: Apply using 3 to 10 gallons per acre of spray (minimum 5 gallons per acre in CA).

#### TANK MIXING:

- This product may be tank mixed with registered cotton herbicides under the following conditions:
  - The tank mix partners do not prohibit tank mixes;
  - The most restrictive of label limitations and precautions are observed; and,
  - No label dosage rates are exceeded.
- To determine physical compatibility of potential tank-mix partners with Acephate 90% SP:
  - 1. In a pesticide-safe container, pour the recommended proportions of each chemical with the same proportion of water as will be present in the chemical supply tank. NOTE: When mixing wettable powder or dry flowable formulations, add and disperse these first, then add liquid pesticides.
  - 2. Mix thoroughly and allow to stand for five minutes.
  - 3. If the combination remains mixed, or can be readily remixed, the mixture is considered physically compatible.

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PESTS CONTROLLED	ACEPHATE 90% SP AND TANK MIX PARTNER	ACEPHATE 90% SP + TANK MIX PARTNER (PER ACRE)	SPECIFIC INSTRUCTIONS	
Aphids Bollworm	Acephate 90% SP + one of the following:	0.5 to 1.0 lb. + one of the following:	To maintain control: For applications of 0.5 lbs. or less active	
Cabbage Looper Cotton Leaf Perforator	Ammo <sup>®</sup> 2.5 EC*	Refer to the Ammo 2.5 EC approved label for use instructions.	ingredient per acre, repeat applications at 3-day spray intervals as necessary.* For applications greater than 0.5 lbs. active	
Cutworms Fall Armyworms Fleahoppers	Asana <sup>®</sup> XL*	Refer to the Asana <sup>®</sup> XL approved label for use instructions.	ingredient per acre, repeat applications at 7-day spray intervals as necessary.* For Stinkbugs and Cutworms:	
Pink Bollworm (AZ & CA) Plantbugs	Baythroid <sup>®</sup> 2 EC	Refer to the Baythroid <sup>®</sup> 2 EC approved label for use instructions.	Use 0.8 lb. / acre of Acephate 90% SP Special Instructions for Cutworms:	
Stinkbugs Sweetpotato/ Silverleaf Whitefly	Capture® 2 EC	Refer to the Capture <sup>®</sup> 2 EC approved label for use instructions.	Apply by ground application; aerial applications are less effective, but may be also used.	
Thrips (including Western Flower Thrips)	Karate <sup>®</sup> 1E (except CA)	Refer to the Karate <sup>®</sup> 1E approved label for use instructions.	For best results when making ground applications: • Apply in the evening	
Tobacco Budworm Whitefly	Scout X-TRA® (except CA)	Refer to the Scout X- TRA <sup>®</sup> approved label for use instructions.	<ul> <li>Direct spray to the lower portion and base of plant.</li> </ul>	
*Do not apply more than 4.4 lbs./A (4 lbs. a.i.) per season. This includes all uses of Acephate 90% SP on cotton.				

**CRANBERRIES** 

#### **USE PREC**AUTIONS:

- Limit to one application per growing season.
- Do not apply more than 1.1 lbs. / acre (1 lb. a.i.) per season.
- Do not apply from start of bloom until all berries set.
- Do not harvest cranberries for at least 90 days after last application.
- Do not apply when wind speed may cause spray drift beyond the desired treatment area.

#### FOLIAR APPLICATIONS:

By Ground or Sprinkler: Use sufficient water to give thorough coverage.

By Air: Minimum of 2 gallons per acre of spray

PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)
Cranberry Blossom Worm	
Cranberry Cutworm	
Gypsy Moth	
False Armyworm	1.1 lbs.
Fireworms	(17.6 oz.)
Spanworms	
Sparganothis	

#### USE PRECAUTIONS FOR SPRINKLER IRRIGATION APPLICATION TO CRANBERRIES:

Acephate 90% SP may only be applied through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, travelers, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of treated water. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.

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

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

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

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

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

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

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

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

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

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

#### HEAD LETTUCE - Crisphead Type Only

#### **USE PRECAUTIONS:**

- 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 that germinate from mid-September through November.
- Do not apply more than 2.2 lbs./A (2 lbs. a.i.) per season.
- Do not harvest lettuce for at least 21 days after last application.

#### FOLIAR APPLICATIONS:

By Ground: Apply using 10 to 60 gallons per acre of spray.

By Air: Apply using a minimum of 5 gallons per acre of spray

PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
Aster Leafhopper Green Peach Aphid	0.5 to 1.1 lbs. (8 to 17.6 oz.)	To maintain control: For applications of 0.5 lbs, or less
Armyworms (excluding Beet	active ingredient per acre applications at 3-day spra necessary.*	
Armyworm) Cabbage Looper	1.1 lbs. (17.6 oz.)	For applications greater than 0.5 lbs. active ingredient per acre, repeat applications at 7-day spray intervals as necessary.*

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#### MINT (PEPPERMINT AND SPEARMINT)

#### **USE PREC**AUTIONS:

- Do not graze treated areas.
- Do not apply more than 2.2 lbs./A (2 lbs. a.i.) per season.
- Do not harvest mint for at least 14 days after last application.

APPLICATION METHOD	PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
FOLIAR By Ground: Apply using 20 to 100 gallons per acre By Air: Apply using 5 to 10 gallons per acre	Alfalfa Looper Aphids Cutworms	1.1 lbs. (17.6 oz.)	Apply when eggs or insects first appear. To maintain control: One repeat application can be made. Allow 7 days between applications.
FOLIAR By Ground: 40 to 100 gallons per acre	Strawberry Root Weevil (Adult) Black Vine Weevil (Adult)	1.1 lbs. (17.6 oz.)	For control, good coverage and canopy penetration is essential. In areas of tall or dense canopies, increase spray pressure and / or volume to ensure adequate canopy penetration. For best results: Apply after adult emergence is complete but prior to egg laying. Apply at dusk or during the night on a warm still evening. Two applications 7 days apart may be necessary to reduce heavy infestations.

PEANUTS

#### **USE PRECAUTIONS:**

- 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. per acre (4 lbs. a.i.) per crop cycle.
- Do not harvest (dig) peanuts for 14 days after last application.

#### FOLIAR APPLICATIONS:

By Ground: Apply using 10 to 50 gallons per acre.

By Air: Apply using 5 to 10 gallons per acre.

#### TANK MIXING:

- This product may be tank mixed with registered at-cracking and early postemergence peanut herbicide under the following conditions:
  - The tank mix partners do not prohibit tank mixes;
  - The most restrictive of label limitations and precautions are observed; and,
  - No label dosage rates are exceeded.
- To determine physical compatibility of potential tank-mix partners with Acephate 90% SP:
  - 1. In a pesticide-safe container, pour the recommended proportions of each chemical with the same proportion of water as will be present in the chemical supply tank. NOTE: When mixing wettable powder or dry flowable formulations, add and disperse these first, then add liquid pesticides.
  - 2. Mix thoroughly and allow to stand for five minutes.
  - 3. If the combination remains mixed, or can be readily remixed, the mixture is considered physically compatible.
- Combinations should be kept agitated and applied immediately. Do not allow combinations to set in the supply tank for prolonged periods of time.

PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS		
Grasshoppers	0.25 to 0.5 lb. (4 to 8 oz.)	Apply when eggs or insects first appear. To maintain control:		
0.4 to 0.8 lb.           (6.4 to 12.8 oz.)		For applications of 0.5 lbs. or less active ingredient		
Corn Earworm Fall Armyworm	· · · · · · · · · · · · · · · · · · ·	per acre, repeat applications at 3-day spray intervals as necessary.*		
Leafhoppers Loopers	0.8 to 1.1 lbs. (12.8 to 17.6 oz.)	For applications greater than 0.5 lbs. active ingredient per acre, repeat applications at 7-day		
Velvetbean Caterpillar       spray intervals as necessary.*         *Do not apply more than 4.4 lbs. per acre (4 lbs. a.i.) per crop cycle.				

#### **USE PRECAUTIONS:**

- Do not apply more than 2.2 pounds per acre (2 lbs. of active ingredient.) per season.
- Do not harvest peppers for at least 7 days after last application.

#### **USE PRECAUTIONS:**

• Apply when eggs or insects first appear.

#### FOLIAR APPLICATIONS:

By Ground: Apply using 25 to 150 gallons per acre of spray.

By Air: Apply using a minimum of 3 gallons per acre of spray (except in CA where a minimum of 5 gallons per acre is required)

PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS	
Grasshoppers 0.25 to 0.5 lb. (4 to 8 oz.)		To maintain control: For applications of 0.5 lbs. or less active ingredient	
Cabbage Looper Green Peach Aphid Tobacco Hornworm	0.5 to 1.1 lbs. (8 to 17.6 lbs.)	<ul> <li>per acre, repeat applications at 3-day spray intervals as necessary.*</li> <li>For applications greater than 0.5 lbs. active</li> </ul>	
European Corn Borer	0.8 to 1.1 lbs. (12.8 to 17.6 oz.)	ingredient per acre, repeat applications at 7-day spray intervals as necessary.*	
*Do not apply more than 2.2 pou	nds per acre (2 lbs. of active in	gredient.) per season.	

#### PEPPERS, NON-BELL FOR USE IN MIDWESTERN STATES, EASTERN STATES AND PUERTO RICO ONLY)

#### **USE PRECAUTIONS:**

- Do not apply more than 1.1 pounds per acre (1 lbs. of active ingredient.) per season.
- Do not harvest peppers for at least 7 days after last application.

#### FOLIAR APPLICATIONS:

By Ground: Apply using 40 to 150 gallons per acre of spray.

PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS	
Aphids	0.5 lb. (8 oz.)	To maintain control, make repeat applications using 3-day spray intervals.*	



#### **USE PRECAUTIONS:**

- Do not apply more than 0.8 lb. Acephate 90% SP per acre as a transplant-water application as phytotoxicity may occur.
- Do not apply more than 4.4 lbs of Acephate 90% SP per acre (4 lbs. active ingredient) per season. This includes the use of Acephate 90% SP in transplant water, plant bed, soil, float bed, (greenhouse), and foliar applications.
- Do not harvest tobacco for at least 3 days after last application.

#### FOLIAR APPLICATIONS:

By Ground: Apply using 10 to 50 gallons per acre of spray.

By Air: Apply using a minimum of 3 gallons per acre of spray (except in CA where a minimum of 5 gallons per acre is required)

APPLICATION METHOD	PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
FLOATBED Foliage: Use 1 tablespoon in 3 gallons of water per every 1,000 sq. ft. of bed.	Cutworm Flea Beetle Green Peach Aphid Tobacco Aphid	0.8 lb. (12.8 oz.)	Apply evenly to ensure thorough coverage. Allow 7 days between applications.* NOTE: Floatbed water should be disposed of in the transplanted field as transplant water or foliar spray.
PLANT BED Foliage: Use 1 tablespoon in 1 gallon of water per every 1,000 sq. ft. of bed.	Cutworm Flea Beetle Green Peach Aphid Tobacco Aphid	0.8 lb. (12.8 oz.)	Apply evenly to ensure thorough coverage. Allow 7 days between applications.*
TRANSPLANT Apply in a minimum of 100 gallons. of transplant water per acre.	Cutworms Flea Beetle Green Peach Aphid Potato Tuberworm Tobacco Aphid Tobacco Thrips	0.8 lb. (12.8 oz.)	<ul> <li>Provides control for approximately 3 to 4 weeks after transplanting.</li> <li>For late season control, use foliar sprays.</li> <li>Make transplant water applications using mechanical transplant equipment only. Using such equipment, the insecticide/water mixture is mechanically applied directly into the soil along with the transplanted plants.</li> </ul>

#### ACEPHATE 90% SP APPLICATION PESTS APPLICATION SPECIFIC INSTRUCTIONS METHOD CONTROLLED RATE (PER ACRE) To maintain control: 0.25 to 0.5 lb. Grasshoppers Repeat applications at 3-day spray intervals as (4 to 8 oz.) necessary.\* Flea Beetle To maintain control: Green Peach 0.5 lb. Aphid Repeat applications at 3-day spray intervals as (8 oz.) necessary.\* FOLIAR Hornworm By Ground: Apply using Tobacco Thrips 10 to 50 gallons per acre To maintain control: For applications of 0.5 lbs. or less active ingredient Stinkbugs By Air: Apply using a per acre, repeat applications at 3-day spray intervals 0.5 to 0.8 lb. Tobacco Aphid Minimum of 3 gallons per as necessary.\* Vegetable (8 to 12.8 oz.) acre For applications greater than 0.5 lbs. active Weevils ingredient per acre, repeat applications at 7-day spray intervals as necessary.\* Budworm To maintain control: 0.8 lb. Cabbage Looper Repeat applications at 7-day spray intervals as Cutworm (12.8 oz.) necessary.\* Japanese Beetle Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet. Treat all areas within four feet of the mound. Treat a maximum of 13 mounds per acre. SOIL MOUND Ants (including Do not treat more than once per season. Imported Fire 0.5 lb. per 50 TREATMENT Ants and gallons of water For best results: DRENCH METHOD Harvester Ants) Apply in the early morning or late afternoon, when ants are most active. Do not apply under prolonged hot and dry conditions.

\*Do not apply more than 4.4 lbs of Acephate 90% SP per acre (4 lbs. active ingredient) per season. This includes the use of Acephate 90% SP in transplant water, plant bed, soil, float bed, (greenhouse), and foliar applications.

#### NON-BEARING CITRUS

#### **USE PRECAUTIONS**

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- Do not graze treated areas.
- Do not harvest citrus for one year after treatment.

#### **GENERAL INSTRUCTIONS**

- Spray individual juvenile or non-bearing trees for coverage with total application not to exceed specified rate in lbs. per acre.
- The length of residual activity will depend upon spray coverage and the amount of precipitation following the application.

APPLICATION METHOD	PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
FOLIAR	Aphids Grasshoppers Katydid Mealybugs Orangedogs Plantbugs Thrips Whiteflies (except Sweetpotato/Silverleaf)	0.5 lb. (8 oz.)	To maintain control: Reapply using 3-day spray intervals as necessary.
By Ground: Apply using 100 to 200 gallons/acre of spray	Citrus Blackfly	0.5 to 0.8 lb. (8 to 12.8 oz.)	Apply when eggs or insects first appear. To maintain control: For applications of 0.5 lbs. or less active ingredient per acre, repeat applications at 3-day spray intervals as necessary. For applications greater than 0.5 lbs. active ingredient per acre, repeat applications at 7-day spray intervals as necessary.
	Ants (including Imported Fire Ants and Harvester Ants)	0.8 lb. (12.8 oz.)	Repeat application at 7 day spray intervals as necessary to maintain control.
SOIL MOUND TREATMENT DRENCH METHOD	Ants (including Imported Fire Ants and Harvester Ants)	0.5 lb. per 50 gallons of water	Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet. Treat all areas within four feet of the mound. Repeat applications may be made as necessary to maintain control.

#### NON-CROP AREAS

#### FIELD BORDERS, FENCEROWS, ROADSIDES, DITCHBANKS, BORROW PITS

#### **USE PRECAUTIONS:**

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

#### **GENERAL INSTRUCTIONS**

- Make applications only early to mid-season.
- Use the higher application rates when applying to dense foliage.

#### FOLIAR APPLICATIONS:

By Ground: Apply using 10 to 20 gallons per acre.

By Air: Apply using 1 to 5 gallons per acre (except in CA where a minimum of 5 gallons per acre must be used)

PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
Grasshoppers	0.25 lb. (4 oz.)	Use of an approved drift retardant to assist in controlling drift and reducing evaporation is acceptable.

#### WASTELAND (NON-CROP AREAS)

#### **USE PRECAUTIONS:**

- 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.

#### GENERAL INSTRUCTIONS

• Use the higher application rates when applying to dense foliage.

#### FOLIAR APPLICATIONS:

By Ground: Apply using 10 to 20 gallons per acre.

By Air: Apply using ½ gallon per acre (except in CA where a minimum of 5 gallons per acre must be used)

PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
Black Grass Bugs		If necessary/desired, add an approved
Grasshoppers	1.6 to 2.2 oz.	drift retardant to assist in controlling
Mormon Crickets	•	drift and reducing evaporation.

#### SPECIALTY USES - NON CROP AREAS

#### **USE PRECAUTIONS:**

- Do not treat mound more than once per season.
- Grass in treated area may be injured.

PEST CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
		Apply 1 gallon. of mix to each mound area by sprinkling the mound until it is wet.
	<b>Drench Method:</b> Mix 0.5 lb. in 50 gallons of water.	Treat all areas within four feet of the mound.
Ants (including		Treat a maximum of 13 mounds per acre.
Imported Fire Ants and		Do not treat more than once per season.
Harvester Ants)		For best results:
		Apply in the early morning or late afternoon, when ants are most active.
		Do not apply under prolonged hot and dry conditions.

#### SPECIALTY USES - CONTAINER GROWN NURSERY STOCK

#### **USE PRECAUTIONS:**

- When used on greenhouse and outdoor ornamentals, do not apply more than 1.0 pound of active ingredient / acre per 100 gallons of water.
- Do not exceed 0.75 pounds of active ingredient / acre for cut flowers and 1.0 pound of active ingredient ./ acre for all other ornamentals.
- Allow a minimum of 7 days between applications.

#### **GENERAL INSTRUCTIONS:**

- Allow a minimum of seven days between applications.
- Apply the specified amount of Acephate 90% SP per 100 gals. of solution so as to thoroughly drench the root system.

PLANTS	PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	APPLICATION TIMING
Container Grown Nursery Stock (Arborvitae, Azalea, Camellia, Rhododendron, Roses, Viburnum, Yew)	Black Vine Weevil Strawberry Root Weevil	0.8 lb. (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.
	Ants (including Imported Fire Ants and Harvester Ants)		Apply as needed for control.



#### TREES AND SHRUBS

#### **USE PRECAUTIONS:**

- When used on nursery crops, spray several sample plants and observe for signs of phytotoxicity for a minimum of two weeks before applying to all plants.
- Avoid applying to Huckleberry, Balm of Gilead, Cottonwood, Lombardy Poplar and Viburnum suspensum as phytotoxicity may be observed.
- Do not exceed 0.75 pounds of active ingredient / acre for cut flowers and 1.0 pound of active ingredient / acre for all other ornamentals.

#### GENERAL INSTRUCTIONS:

• Unless otherwise noted, apply the specified amount of Acephate 90% SP per 100 gallons of water using a hydraulic sprayer.

ļ	PLANTS	PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER 100 GALLONS)	APPLICATION TIMING	SPECIFIC INSTRUCTIONS	
	Trees and Shrubs (Except Flowering Crabapple, see below)	Aphids Bagworms Birch Leafminer Tent Caterpillars* Lace Bugs Leafrollers	0.28 lb. (4.5 oz.)	Upon appearance of the insects.	To maintain control: For applications of 0.5 lbs. or less active ingredient per acre, repeat applications at 3- day spray intervals as necessary.	
		Douglas Fir Tussock Moth Larvae Gypsy Moth Larvae* Webworms	0.5 lb. (8 oz.)	Upon appearance of the insects.	For applications greater than 0.5 lbs. active ingredient per acre, repeat applications at 7- day spray intervals as necessary.	
		Scales (Crawlers)	0.5 lb. (8 oz.)	As crawlers begin to appear.	Use of a compatible	
		Ponderosa Pine Needle Miner	0.5 lb. (0.8 oz.)	Consult your local County Extension Agent for optimal application timing.	sticker will improve control of Gypsy Moth larvae.	
		Grasshoppers	0.5 lb. (0.8 oz.)	Upon appearance of grasshoppers.	Mist blower application: Adjust rates to 1 1/3 lbs.	
		California Oakworm Cankerworms (Spring and Fall)	0.28 to 0.5 lb. (4.5 to 8 oz.)	Upon appearance of the insects. Use the higher amounts listed when larger larvae are present.	per 100 gals. water for Gypsy Moth control and 1.0 lb. per 100 gals. water for Tent	
	)	Nantucket Pine Tip Moth Larvae	0.8 lb. (12.8 oz.)	Consult your local County Extension Agent for optimal application timing.	Caterpillar control.	
		Root Weevil Adults	0.8 lb. (12.8 oz.)	Apply as soon as damage is observed.		
		Box Elder Bugs Sawflies Budworms Leafhoppers	0.8 lb. (12.8 oz.)	Upon appearance of the insects.		

**ACEPHATE 90% SP** APPLICATION PESTS SPECIFIC PLANTS RATE APPLICATION TIMING CONTROLLED INSTRUCTIONS (PER 100 GALLONS) Apply as soon as insects are 1.1 lbs. Japanese Beetle observed. (17.6 oz.) As the larvae begin to appear. Elm Leaf Beetle 1.1 lbs. Acephate 90% SP will not (larvae) (17.6 oz.) prevent Elm Leaf Beetle eggs from hatching. Apply the specified Application should be made amount of Acephate 90% within two weeks bud burst. **Douglas Fir** 0.5 lb. SP in not less than 2 Douglas Fir (Christmas (8 oz.) For current best practices gals. of spray per acre by Needle Midge information, consult your Trees) (0.5 lb. per acre) air or in 100 gals. of County Extension Service. spray per acre by ground. Do not apply more often than 3 times in a growing season (using a minimum of 4-week intervals). Phytotoxicity has been Aphids Flowering 0.28 lb. Tent Caterpillars Upon appearance of the insects. documented on the Crabapples (4.5 oz.) Leafrollers following crabapple varieties: Hopa,

Ichonoski,

Malusfloribunda, Pink Perfection, Red Wine and Snow Cloud.

#### GOLF COURSE AND SOD FARM TURFGRASS

#### **USE PRECAUTIONS:**

- Do not allow livestock to graze in treated areas.
- Do not feed grass clippings to livestock.
- Use is limited to sod farms and golf courses, except when applying by mound or spot treatment for fire ant and harvester ant control.
- Aerial application to turf is prohibited.
- Wait at least 3 days following the last Acephate 90% SP application prior to harvesting sod.
- The maximum application rate is 3 lbs. a.i./acre for sod farms and 4 lbs. a.i./acre for golf courses.

GENERAL INSTRUCTIONS:

- Apply as soon as insects or damage caused by the insects first appears.
- To maintain control, repeat applications using a minimum of one-week intervals as necessary.

#### Turfgrass (Golf Courses and Sod Farms only)

PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER 1000 SQ. FT.)	APPLICATION INSTRUCTIONS	SPECIFIC INSTRUCTIONS	
Fall Armyworm Yellow Striped Armyworm Southern Armyworm	0.4 to 1 oz. (1.1 to 2.75 lbs. / acre)	Use a minimum of 5 gals. of water per 1,000 sq. ft. as	To maintain control, repeat applications at 7-day intervals may be necessary.	
Cutworm	1 to 1.6 oz. (2.75 to 4.4 lbs. / acre)	necessary to obtain good coverage.		
Chinch Bugs	1 to 1.6 oz. (2.75 to 4.4 lbs. / acre)	Use the higher amount wh	Use the higher amount when quick	
Fleas	1 to 1.6 oz. (2.75 to 4.4 lbs. / acre)	Use 1 to 15 gals. of water per 1,000 sq. ft.	knockdown is needed or with heavy infestations.	
Sod Webworm	0.4 to 0.83 oz.			To maintain control, repeat applications
(Crambus spp.)	(1.1 to 2.25 lbs. / acre)		at 7-day intervals may be necessary.	
<b>Leafh</b> opper	0.83 oz. (2.25 lbs. / acre)		at r-day intervals may be necessary.	

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PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER 1000 SQ. FT.)	APPLICATION INSTRUCTIONS	SPECIFIC INSTRUCTIONS
Mole Crickets (except CA) Spittlebug (except CA)	0.83 to 1.6 oz. (2.25 to 4.4 lbs. / acre)	Use 1 to 15 gals. of water per 1,000 sq. ft. as necessary to obtain good coverage.	<ul> <li>For best results, apply after irrigating in the late afternoon or early evening.</li> <li>Do not irrigate after application.</li> <li>A lemon fragrance substance may be added to the spray mix as a flushing agent, potentially providing increased mole cricket contact with Acephate 90% SP. The following products have been shown to be effective flushing agents: Lemon Palmolive, Lemon Joy, and Mighty Myrt Products</li> <li>Manufacture-Base Pure Lemon Fragrance. Use 2-teaspoons per gallon of water for small mix volumes or 6 fl. oz. per 50 gallons of water for large mix volumes.</li> <li>More than one application may be required for knockdown of existing populations.</li> <li>Allow at least 7 days between applications, use the higher dosage rate.</li> </ul>
Greenbug (Schizaphis graminun) Grasshoppers	0.4 oz. (1.1 lbs. / acre)	Use 4 gals. of water per 1,000 sq. ft.	Do not mow turfgrass for at least 24 hours after application.
Black Turfgrass Ataenius (except CA)	1.25 to 1.6 oz. (3.4 to 4.4 lbs. / acre)	Use a minimum of 5 gallons water per 1,000 sq. ft.	Irrigate lightly after application (not more than ½ inch). Use the higher rate for severe infestations.

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Dichondra (Plant Site for Golf Course and Sod Farm Turfgrass only)

PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER 1000 SQ. FT.)	APPLICATION INSTRUCTIONS	SPECIFIC INSTRUCTIONS
Cutworm Flea Beetle Southern Armyworm Yellow Striped Armyworm	0.83 to 1.6 oz. (2.25 to 4.4 lbs. / acre)	Use a minimum of 15 gals. of water per 1,000 sq. ft. to obtain good coverage.	

#### MOUND TREATMENT OF FIRE ANTS AND HARVESTER ANTS IN TURFGRASS

#### **USE PRECAUTIONS:**

- Grass in treated areas may be injured.
- Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.

ACEPHATE 90% SP APPLICATION RATE	APPLICATION INSTRUCTIONS	SPECIFIC INSTRUCTIONS
Mound Treatment Drench Method: Mix 1/2 lb. in 50 gals. of water.	For best results, apply when the ants are most active (in the early morning or late afternoon).	Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet. Treat all areas within four feet of the mound. Do not treat mound more than once per season.

#### OUTDOOR AND PERIMETER SPRAY

#### **USE PRECAUTIONS:**

#### • Not for use on residential turfgrass.

#### GENERAL INSTRUCTIONS:

• Apply as soon as insects appear.

PEST CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER GALLON)	SPECIAL INSTRUCTIONS	APPLICATION INSTRUCTIONS
Wasps	1.3 oz. (0.08 lb.)	Treat when wasps are less active (early or late in the day).	Apply as a spot treatment to the nest, nest entrance, and surrounding areas where the wasps may land.
Ants (including Imported Fire Ants and			Apply to the ground within 6 to 10 feet of the structure and to a height of 2 to 3 feet on the foundation.
Harvester Ants) Crickets Cockroaches Earwigs Pillbugs	1.3 oz. (0.08 lb.)		Apply using spray or with a paint brush to surfaces of buildings, window frames, shutters, entryways, screens, eaves, patios, garages, carports, around garage areas and other areas where the insects may occur.

#### **USE PRECAUTIONS:**

- When used on greenhouse and outdoor ornamentals, application is limited to 1.0 lb. of active ingredient per 100 gallons of water.
- Do not exceed 0.75 pounds of active ingredient / acre for cut flowers and 1.0 pound of active ingredient / acre for all other ornamentals.
- Multiple applications may cause slight tip burn or marginal leaf necrosis on some varieties. A test should be made on a sample plant to determine if unacceptable damage occurs prior to application to all plants.

#### **GENERAL INSTRUCTIONS:**

- Apply as insects begin to appear.
- Apply as a full coverage spray using a hydraulic sprayer.

PLANTS	PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER 100 GAL.)	APPLICATION TIMING
Chrysanthemums Daisies Dahlias Easter Lily Gladioli Gypsophila Pachysandra Pansy Peony Roses Sedum Statice Strawflower Yarrow Zinnia	Aphids Thrips Lygus	0.5 lb. (8 oz.)	To maintain control repeat applications may be necessary. Allow a minimum of 3 days between applications.
Roses Boston Ivy	Japanese Beetle	1.1 lbs. (17.6 oz.)	To maintain control, repeat applications may be necessary. Allow a minimum of 7 days between applications.

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#### **GREENHOUSE FLORAL AND FOLIAGE PLANT CROPS**

#### **USE PRECAUTIONS:**

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- When used on greenhouse and outdoor ornamentals, application is limited to 1.0 lb. of active ingredient per 100 gallons of water.
- Do not exceed 0.75 pounds of active ingredient / acre for cut flowers and 1.0 pound of active ingredient / acre for all other ornamentals.
- Multiple applications may cause slight tip burn or marginal leaf necrosis on some varieties. A test should be made on a sample plant to determine if unacceptable damage occurs prior to application to all plants.
- Phytotoxicity has occurred on the following foliage plants:

Bletchum gibbum Cissus Antarctica Ficus triangularis Fittonia verschaffelti Maranta leuconeura kerchoveana Pachystachya lutea Plectranthus australis Polypodium aureus Polypodium aureus Polystichum Pteris ensiformis Tolmiea menziesii

Before treating large plantings, spray a test sample of plants and observe for 2-weeks for varietal phytotoxicity.

- Acephate 90% SP applications on certain varieties of Poinsettias after bract formation may result in phytotoxicity.
- Phytotoxicity has occurred on the following Chrysanthemum varieties:

Albatross Bonnie Jean Dixie Garland Gem Iceberg Pride Showoff Statesman Tally Ho Westward Ho Wild Honey.

Before treating large Chrysanthemum plantings, spray a test sample of plants and observe for 2-weeks for varietal phytotoxicity.

#### GENERAL INSTRUCTIONS:

- Apply as insects begin to appear.
- Unless otherwise instructed, apply as a full coverage spray using a hydraulic sprayer.

PLANTS	PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER 100 GAL.)	APPLICATION INSTRUCTIONS	SPECIFIC INSTRUCTIONS
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PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER 100 GAL.)	APPLICATION INSTRUCTIONS	SPECIFIC INSTRUCTIONS	
Leafrollers	0.5 to 0.8 lb. (8 to 12.8 oz.)	Apply with a hydraulic sprayer as a full coverage spray. To maintain control:		
		For applications of 0.5 lbs. or less active ingredient per acre, repeat applications at a 3-day minimum spray interval.	Use the higher amount listed when large larvae are present.	
		For applications greater than 0.5 lbs. active ingredient per acre, repeat applications at a 7-day minimum spray interval.		
Aphids	0.28 lb. (4.5 oz.)	Apply with a hydraulic sprayer as a full coverage spray. Allow a minimum of 3 days between applications.		
Mealybugs	0.5.15	To maintain control of mealybugs and whiteflies,	A wetting agent may be necessary when applying	

Foliage Plants Anthuriums Cacti Orchids Poinsettia	Aphids	0.28 lb. (4.5 oz.)	Apply with a hydraulic sprayer as a full coverage spray. Allow a minimum of 3 days between applications.	
	Mealybugs Thrips Whiteflies	0.5 lb. (8 oz.)	To maintain control of mealybugs and whiteflies, repeat applications at a minimum of 3-day spray intervals.	A wetting agent may be necessary when applying to difficult to wet foliage.
	Scales (Crawlers)	0.5 lb. (8 oz.)	To maintain control when there is continuous crawler production, repeat applications at a minimum of 3-day spray intervals.	
	Sweet Potato Whiteflies (except CA)	0.28 lb. (4.5 oz.) + Tame <sup>®</sup> 2.4 EC Spray 10 2/3 fl. oz. (0.2 lb. a.i.)	Allow a minimum of 3 days between applications. If a population is well established, make one application of the tank mix and follow in 5 to 7 days with Tame <sup>®</sup> alone at 16 fl. oz./100 gals. (See Tame <sup>®</sup> label for instructions).	Apply as a tank mix at a volume that ensures good coverage. To avoid potential resistance, follow the Tame <sup>®</sup> label for specific instructions on the alternation of Tame <sup>®</sup> plus Acephate 90% SP and Tame <sup>®</sup> alone.

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PLANTS

Roses

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PLANTS	PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER 100 GAL.)	APPLICATION INSTRUCTIONS	SPECIFIC INSTRUCTIONS
Roses Carnations Chrysanthemums	Aphids Thrips	0.5 lb. (8 oz.)	Apply with a hydraulic sprayer as a full coverage spray.	
			Apply as insects appear or at the tight flower bud stage.	
			To maintain control, repeat applications may be necessary using the following restrictions:	Do not apply to Chrysanthemums and Roses with open flowers.
			A minimum of 3 days between applications to roses.	
			A minimum of 28 days between applications to Carnations and Chrysanthemums.	

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.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Keep pesticide in original container. Store in a cool, dry place away from excessive heat. Do not put concentrate or dilute into food or drink containers.

**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 bag. Dispose of outer bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### LIMITED WARRANTY AND DISCLAIMER

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such use or the results to be obtained if not used in accordance with printed directions and established safe practice. Buyer's exclusive remedy and manufacturer's or seller's exclusive liability for any and all claims, losses, damages or injuries resulting from the use or handling of this product, whether or not based in contract, negligence, strict liability in tort or otherwise shall be limited, at the manufacturer's option to replacement of, or the repayment of the purchase price for, the quantity of product with respect to which damages are claimed.

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