

81964-3

7/11/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D C 20460



OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

JUL 11 2012

ChemStarr LLC
c/o Ross Gilbert
Pyxis Regulatory Consulting Inc
4110 136th St NW
Gig Harbor WA 98332

Dear Mr Gilbert

Subject Amendment to delete green beans per PRD mitigation letter
 Acephate 90% SP
 EPA Registration No 81964 3
 Your submission dated April 9 2012

The labeling referred to above submitted in connection with the Federal Insecticide Fungicide and Rodenticide Act as amended is acceptable

Please submit one final printed copy of the labeling before releasing the product for shipment A stamped copy of the labeling is enclosed for your records If you have any questions regarding this label please contact Autumn Metzger at (703) 305 5314 or metzger.autumn@epa.gov

Sincerely

Venus Eagle
Product Manager 01
Insecticide Rodenticide Branch
Registration Division (7505P)

[Water Soluble Film Label]

Acephate 90% SP
INSECTICIDE

ACTIVE INGREDIENT	By Wt
Acephate (<i>O S</i> Dimethyl acetylphosphoramidothioate)	90.0%
OTHER INGREDIENTS	<u>10.0%</u>
TOTAL	100.0%

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 3

ACCEPTED
JUL 11 2012
Under the Federal Insecticide Fungicide,
and Rodenticide Act, as amended for the
pesticide registered under
EPA Reg No 81964-3

[Main Label]

Acephate 90% SP INSECTICIDE

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TOTAL	100.0%

**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 • Call a poison control center or doctor for treatment advice
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 by mouth to mouth if possible • Call a poison control center or doctor for further treatment advice
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-949-679-3535 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
Acephate is a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure but decisions regarding treatment will usually need to be made before test results are available. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (PROTOPAM) is also antidotal and may be used in conjunction with atropine but should not be used alone.	

EPA Reg No 81964-3
EPA Est No

Manufactured for
ChemStarr LLC
21 Hubble
Irvine CA 92618
1-949-679-3535

Net Weight lbs

**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 ≥ 14 mils nitrile rubber ≥ 14 mils neoprene rubber ≥ 14 mils and natural rubber ≥ 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 NIOSH approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC 21C or a NIOSH approved respirator with any N R P or HE filter

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240(d)(6)]

The use of human flaggers is prohibited

User Safety Recommendations

- Users should 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. ~~Ensure that planting equipment is functioning properly in accordance with manufacturer specifications to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds.~~

This product and its degradate are 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. Ensure that planting equipment is functioning properly in accordance with manufacturer specifications to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds.

PRODUCT 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.

RESTRICTIONS

- 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.
- This product is **not** for outdoor residential use on lawns, turf, home gardens, ornamentals, flowers, shrubs or trees. This restriction applies to all uses listed on this label.

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.

PRODUCT 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.
- RESTRICTION 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.
- RESTRICTION 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.
- RESTRICTION Do not apply to cranberries using any other type of irrigation system.

HAND WAND RESTRICTIONS

- Do not make applications by low pressure hand wand in California.
- 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

WATER SOLUBLE PACKAGING

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.

TABLE OF EQUIVALENTS

Acephate 90% SP Application Rate (per Acre)	Acres Treated by a Single ½ lb Water Soluble Packet
1.6 oz	5.0
2.2 oz	3.6
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
2.25 lbs	0.22
2.75 lbs	0.18
3.5 lbs	0.14
4.4 lbs	0.11

Acephate 90% SP Application Rate (per Acre)	Acres Treated by a Single 1 lb Water Soluble Packet
1.6 oz	10.0
2.2 oz	7.3
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
2.25 lbs	0.44
2.75 lbs	0.36
3.5 lbs	0.28
4.4 lbs	0.22

Acephate 90% SP Application Rate (per Acre)	Acres Treated by a Single 2.5 lb Water Soluble Packet
1.6 oz	25
2.2 oz	18.2
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
2.25 lbs	1.1
2.75 lbs	0.9
3.5 lbs	0.7
4.4 lbs	0.57

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

BEANS AND LIMA BEANS
Dry and Succulent Forms (Except Succulent Green Beans)

USE RESTRICTIONS

- 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 (dry beans) for at least 14 days after last application
Do not harvest Lima for at least 24 hours after the last application (1 day preharvest interval)
- Use on succulent green beans is prohibited (includes string beans snap beans and wax beans)

APPLICATION 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 Leafhoppers 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)	
*Do not apply more than 2.2 lbs /acre (2 lbs AI) per season		

CELERY

USE RESTRICTIONS

- 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
- Trim and remove all celery tops before shipment for use

APPLICATION 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
Green Peach Aphid	0.5 to 1.1 lbs (8 oz 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 *
Cabbage Looper Fall Armyworms	1.1 lbs (17.6 oz)	For applications greater than 0.5 lbs active ingredient per acre make repeat applications at 7 day intervals as necessary *
*Do not apply more than 2.2 lbs per acre (2 lbs active ingredient) per season		

COLE CROPS
Brussels Sprouts & Cauliflower

USE RESTRICTIONS

- 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 1) per season
Do not harvest for at least 14 days after last application

APPLICATION 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 * 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
Cabbage Looper Diamondback Moth Larvae Imported Cabbage Worm	1.1 lbs (17.6 oz)	
*Do not apply more than 2.2 lbs /A (2 lbs a 1) per season		

COTTON

USE RESTRICTIONS

- 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 lbs product (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

APPLICATION 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) Cutworm (Except CA) Thrips (including Western Flower Thrips)	0.56 to 1.1 lbs IMPORTANT For the Blacklands Region of Texas use the 1.1 lbs /acre application rate	Use only flat fan nozzles Verify that the nozzles are aligned to maximize spray deposition into the seed furrow 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 (Lygus)	0.25 to 1.0 lb (AZ & CA) 0.5 to 1.0 lb	Use the highest rate listed for Lygus adults that have migrated into cotton 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 *
Fleahopper	0.25 lb	To maintain control repeat applications at 3 day intervals as necessary *

PESTS CONTROLLED	ACEPHATE 90 / SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
Cotton Aphids (excluding AZ and CA)	0.5 to 1.0 lb	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. 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 *
Whitefly (excluding Sweetpotato Whitefly / Silverleaf Whitefly)	0.5 to 1.0 lb	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 *
Armyworms (excluding Beet Armyworm) Cabbage Looper	1.0 lb	Apply when eggs appear and repeat applications using 7 day spray intervals *
Bollworm Tobacco Budworm (Adults Larvae) Eggs/ DEADHATCH®	0.5 to 1.0 lb (East of Rockies) 1.0 lb (AZ & CA) 0.25 to 0.5 lb	Moths of budworm larvae are controlled by direct contact with spray. Death is most likely to occur when late evening applications are made. Use 0.5 lbs /acre for mild infestations Use 0.8 to 1.0 lbs /acre for moderate to severe infestations 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 * DEADHATCH® 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 *
Cutworms	0.8 lb	Apply by ground application. Aerial applications are less effective but may be also used. For best results when making ground applications Apply in the evening 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 *
*Do not apply more than 4 lbs a.i. per season. This includes all uses of Acephate products and Acephate 90% SP on cotton		

**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 RESTRICTIONS

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

Acephate 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

Do not apply more than 4.0 lbs a.i./A (4.4 lbs /A of Tide Acephate 90 WDG) per crop cycle This includes all uses of acephate in commercial seed treatment in furrow spray and foliar applications

Do not use treated seed for food feed or oil production Excess treated seed may be used for ethanol production only if (1) by products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by products that are used in agronomic practice

Store away from feeds and other foodstuffs

- Wear long sleeved shirt long pants and chemical resistant gloves when handling treated seed
Dispose of seed packaging in accordance with local requirements
Exposed treated seed may be hazardous to birds and wildlife Dispose of all excess treated seed and seed packaging by burial away from bodies of water Cover or incorporate spilled treated seeds
Treated seeds must be planted into the soil at the depth of 1 inch or greater

SEED CONTAINER/BAG TAG LABEL REQUIREMENTS

Seed commercially treated with Tide Acephate 90 WDG must be labeled in compliance with all the requirements of the Federal Seed Act

In addition all bags containing treated seed must be labeled or tagged with the following information

This seed has been treated with Tide Acephate 90 WDG which contains x mg* active ingredient (ai) per seed *to be filled in

Do not apply more than 4.0 lbs a.i./A per crop cycle This includes all uses of acephate such as commercial seed treatments in furrow spray and foliar applications

Do not use treated seed for food feed or oil production Excess treated seed may be used for ethanol production only if (1) by products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by products that are used in agronomic practice

Store away from feeds and other foodstuffs

Wear long sleeved shirt long pants and chemical resistant gloves when handling treated seed

- Dispose of seed packaging in accordance with local requirements
Exposed treated seed may be hazardous to birds and wildlife Dispose of all excess treated seed and seed packaging by burial away from bodies of water Cover or incorporate spilled treated seeds
Treated seeds must be planted into the soil at the depth of 1 inch or greater
Ensure that planting equipment is functioning properly in accordance with manufacturer specifications to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds

Follow the most restrictive labeling when using a tank mix

PESTS CONTROLLED	ACEPHATE 90 % SP (PER 113 LBS COTTONSEED)	EFFICACY	SPECIFIC INSTRUCTIONS
Thrips Cotton Aphids	0.5 lb (8.0 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 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.
Black (Greasy) Cutworm	0.5 lb (8.0 oz)	Provides protection against Black (Greasy) Cutworm from planting through the 3 ^d to 4 th leaf stage of development	

COTTON TANK MIXES

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.

USE RESTRICTIONS

- 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.

APPLICATION 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

- In a pesticide safe container pour the specified 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
- 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

PESTS CONTROLLED	ACEPHATE 90 / SP AND TANK MIX PARTNER	ACEPHATE 90% SP + TANK MIX PARTNER (PER ACRE)	SPECIFIC INSTRUCTIONS
Sweetpotato Whitefly (Silverleaf Whitefly)	Acephate 90% SP + Danitol® 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 *
Armyworms (excluding Beet Armyworm) Bollworm Cabbage Looper Cotton Aphid Cutworms Fleahopper Grasshoppers Pink Bollworm Plantbugs (Lygus Mirids) Salt Marsh Caterpillar Thrips (including Western Flower Thrips) Tobacco Budworm Whitefly (excluding Sweetpotato/Silverleaf Whitefly)	Acephate 90% SP + Lorsban® 4E	0.28 to 1.1 lbs + 1 to 2 pts	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 * Special Instructions for Cutworms Use 0.8 lb / acre of Acephate 90% SP Apply by ground application aerial applications are less effective but may be also used For best results when making ground applications Apply in the evening <ul style="list-style-type: none"> • Direct spray to the lower portion and base of plant
*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			

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.

USE RESTRICTIONS

- 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 or follow the most restrictive PHI.
- 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.

APPLICATION 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 specified 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.

PESTS CONTROLLED	ACEPHATE 90% SP AND TANK MIX PARTNER	ACEPHATE 90 % SP + TANK MIX PARTNER (PER ACRE)	SPECIFIC INSTRUCTIONS
Aphids Bollworm Cabbage Looper Cotton Leaf Perforator Cutworms Fall Armyworms Fleahoppers Pink Bollworm (AZ & CA) Plantbugs Stinkbugs Sweetpotato/Silverleaf Whitefly Thrips (including Western Flower Thrips) Tobacco Budworm Whitefly	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 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 * For Stinkbugs and Cutworms Use 0.8 lb / acre of Acephate 90% SP Special Instructions for Cutworms Apply by ground application aerial applications are less effective but may be also used For best results when making ground applications Apply in the evening <ul style="list-style-type: none"> • Direct spray to the lower portion and base of plant
	Ammo® 2.5 EC*	Refer to the Ammo® 2.5 EC approved label for use instructions	
	Asana® XL*	Refer to the Asana® XL approved label for use instructions	
	Baythroid® 2 EC	Refer to the Baythroid® 2 EC approved label for use instructions	
	Capture® 2 EC	Refer to the Capture® 2 EC approved label for use instructions	
	Karate® 1E (except CA)	Refer to the Karate® 1E approved label for use instructions	
	Scout X TRA® (except CA)	Refer to the Scout X TRA® approved label for use instructions	
*Do not apply more than 4.4 lbs / A (4 lbs a 1) per season This includes all uses of Acephate 90% SP on cotton			

CRANBERRIES

USE RESTRICTIONS

- Limit to one application per growing season
- Do not apply more than 1.1 lbs / acre (1 lb a 1) per season
- Do not apply from start of bloom until all berries set
- Do not harvest cranberries for at least 75 days after last application in the States of MA NJ OR WA and WI and 90 days in all other states
- 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 Fireworms Spanworms Sparganothis	1.1 lbs (17.6 oz)

RESTRICTIONS AND 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 solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops The irrigation line or water pump must include a functional pressure switch 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. **Center Pivot Systems** Inject the specified dosage per acre continuously for one complete revolution of the system.

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 RESTRICTIONS

- 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 1) per season
Do not harvest lettuce for at least 21 days after last application

APPLICATION INSTRUCTIONS

For use on Spring Summer and early Fall crops in all areas Winter crops in Florida and Texas late Fall crops in Arizona and Winter crops in Arizona and California

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 active ingredient per acre repeat applications at 3 day spray intervals as necessary *
Armyworms (excluding Beet 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 *
*Do not apply more than 2.2 lbs /A (2 lbs a 1) per season		

**MINT
(PEPPERMINT AND SPEARMINT)**

USE RESTRICTIONS

- Do not graze treated areas
- Do not apply more than 2.2 lbs /A (2 lbs a 1) 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
<p>FOLIAR By Ground Apply using 20 to 100 gallons per acre</p> <p>By Air Apply using a minimum 5 to 10 gallons per acre</p>	<p>Alfalfa Looper Aphids Cutworms</p>	<p>1.1 lbs (17.6 oz)</p>	<p>Apply when eggs or insects first appear To maintain control One repeat application can be made Allow 7 days between applications</p>
<p>FOLIAR By Ground Apply using a minimum 40 to 100 gallons per acre</p>	<p>Strawberry Root Weevil (Adult) Black Vine Weevil (Adult)</p>	<p>1.1 lbs (17.6 oz)</p>	<p>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</p>

PEANUTS

USE RESTRICTIONS

- 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 specified amount of each chemical with the same proportion of water as will be present in the chemical supply tank. 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 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 *
Thrips	0.4 to 0.8 lb (6.4 to 12.8 oz)	
Corn Earworm Fall Armyworm Leafhoppers Loopers Velvetbean Caterpillar	0.8 to 1.1 lbs (12.8 to 17.6 oz)	
*Do not apply more than 4.4 lbs per acre (4 lbs a.i.) per crop cycle		

PEPPERS, BELL

USE RESTRICTIONS

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

APPLICATION INSTRUCTIONS

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 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 *
Cabbage Looper Green Peach Aphid Tobacco Hornworm	0.5 to 1.1 lbs (8 to 17.6 lbs)	
European Corn Borer	0.8 to 1.1 lbs (12.8 to 17.6 oz)	
*Do not apply more than 2.2 pounds per acre (2 lbs of active ingredient) per season		

PEPPERS NON BELL

(FOR USE IN MIDWESTERN STATES EASTERN STATES AND PUERTO RICO ONLY)

USE RESTRICTIONS

Do not apply more than 1.1 pounds per acre (1 lb 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 *
*Do not apply more than 1.1 pounds per acre (1 lb of active ingredient) per season		

SOYBEANS

USE RESTRICTIONS

- Do not apply more than 1.66 pounds per acre (1.5 lbs of active ingredient) per season
Do not harvest soybeans for at least 14 days after last application
- Do not graze or cut vines for hay or forage

USE PRECAUTIONS

- Always read and follow all label directions, restrictions and precautions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix.

FOLIAR APPLICATIONS

- By Air Apply using 5 to 10 gallons per acre of spray
- By Ground Apply using 10 to 50 gallons per acre of spray

PESTS CONTROLLED	ACEPHATE 90 % SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
Grasshopper Thrips	0.28 to 0.56 lb (4.5 to 9 oz)	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 *
Potato Leafhopper Stink Bugs	0.56 to 1.1 lbs (9 to 17.6 oz)	
Armyworms (except Beet) Bean Leaf Beetle Cabbage Looper Green Cloverworm Mexican Bean Beetle Soybean Aphid Threecornered Alfalfa Hopper Velvetbean Caterpillar	0.83 to 1.1 lbs (13.3 to 17.6 oz)	
*Do not apply more than 1.66 pounds per acre (1.5 lbs of active ingredient) per season		

TOBACCO

USE RESTRICTIONS

- 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.
- 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.

FOLIAR APPLICATIONS

Do not apply more than 0.8 lb Acephate 90 / SP per acre as a transplant water application as phytotoxicity may occur.

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	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 * Dispose of floatbed water in the transplanted field as transplant water or foliar spray
PLANT 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)	Provides control for approximately 3 to 4 weeks after transplanting For late season control use foliar sprays

APPLICATION METHOD	PESTS CONTROLLED	ACEPHATE 90 / SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
<p>FOLIAR By Ground Apply using 10 to 50 gallons per acre</p> <p>By Air Apply using a Minimum of 3 gallons per acre</p>	Grasshoppers	0.25 to 0.5 lb (4 to 8 oz)	To maintain control Repeat applications at 3 day spray intervals as necessary *
	Flea Beetle Green Peach Aphid Hornworm Tobacco Thrips	0.5 lb (8 oz)	To maintain control Repeat applications at 3 day spray intervals as necessary *
	Stinkbugs Tobacco Aphid Vegetable Weevils	0.5 to 0.8 lb (8 to 12.8 oz)	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 *
	Budworm Cabbage Looper Cutworm Japanese Beetle	0.8 lb (12.8 oz)	To maintain control Repeat applications at 7 day spray intervals as necessary *
<p>SOIL MOUND TREATMENT</p> <p>DRENCH METHOD</p>	Ants (including Imported Fire Ants and Harvester Ants)	0.5 lb per 50 gallons of water	<p>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 RESTRICTION Treat a maximum of 13 mounds per acre RESRICTION Do not treat more than once per season For best results Apply in the early morning or late afternoon when ants are most active Application under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest</p>
<p>*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</p>			

NON BEARING CITRUS

USE RESTRICTIONS

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

APPLICATION 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 By Ground Apply using 100 to 200 gallons/acre of spray	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
	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 RESTRICTIONS

- Do not graze or feed vegetation cut from treated areas
NOT for outdoor residential use on lawns turf home gardens ornamentals flowers shrubs or trees
- Make applications only early to mid season

APPLICATION 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 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 RESTRICTIONS

- 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
- NOT for outdoor residential use on lawns turf home gardens ornamentals flowers shrubs or trees

APPLICATION INSTRUCTIONS

Use the higher listed application rates when applying to dense foliage

FOLIAR APPLICATIONS

By Ground Apply using 10 to 20 gallons per acre
 By Air Apply using / 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 Grasshoppers Mormon Crickets	1.6 to 2.2 oz	If necessary/desired add an approved drift retardant to assist in controlling drift and reducing evaporation

SPECIALTY USES – NON CROP AREAS

USE RESTRICTIONS

Do not treat mound more than once per season

NOT for outdoor residential use on lawns turf home gardens ornamentals flowers shrubs or trees

- Treat a maximum of 13 mounds per acre

Do not treat more than once per season

USE PRECAUTIONS

Grass in treated areas may be injured

PEST CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
Ants (including Imported Fire Ants and Harvester Ants*)	Drench Method Mix 0.5 lb in 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 For best results Apply in the early morning or late afternoon when ants are most active Application under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest

*Not registered in CA for the control of Harvester Ants

SPECIALTY USES – CONTAINER GROWN COMMERCIAL ORNAMENTAL NURSERY STOCK

USE RESTRICTIONS

- Do not exceed 0.75 pounds of active ingredient/100 gallons of water
Allow a minimum of 7 days between applications

APPLICATION INSTRUCTIONS

- 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
<p>Container Grown Ornamental Nursery Stock (Arborvitae Azalea Camellia Rhododendron Roses Viburnum Yew)</p>	<p>Black Vine Weevil Strawberry Root Weevil</p>	<p>0.8 lb (12.8 oz)</p>	<p>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</p>
	<p>Ants (including Imported Fire Ants and Harvester Ants)</p>		<p>Apply as needed for control</p>

ORNAMENTAL 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

USE RESTRICTIONS

- 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
- NOT for outdoor residential use on lawns turf home gardens ornamentals flowers shrubs or trees

APPLICATION INSTRUCTIONS

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

PLANTS	PESTS CONTROLLED	ACEPHATE 90 % SP APPLICATION RATE	APPLICATION TIMING	SPECIFIC INSTRUCTIONS
Ornamental Trees and Shrubs (Except Flowering Crabapple see below)	Aphids Bagworms Birch Leafminer Tent Caterpillars* Lace Bugs Leafrollers	0.5 lb (8 oz) per 178.5 gallons of water	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 For applications greater than 0.5 lbs active ingredient per acre repeat applications at 7 day spray intervals as necessary Use of a compatible sticker will improve control of Gypsy Moth larvae Mist blower application Adjust rates to 1.0 lb per 75 gals water for Gypsy Moth control and 1.0 lb per 100 gals water for Tent Caterpillar control RESTRICTION Do not apply more than 3 times in a growing season
	Douglas Fir Tussock Moth Larvae Gypsy Moth Larvae* Webworms	0.5 lb (8 oz)	Upon appearance of the insects	
	Scales (Crawlers)	0.5 lb (8 oz)	As crawlers begin to appear	
	Ponderosa Pine Needle Miner	0.5 lb (0.8 oz)	Consult your local County Extension Agent for optimal application timing	
	Grasshoppers	0.5 lb (0.8 oz)	Upon appearance of grasshoppers	
	California Oakworm Cankerworms (Spring and Fall)	0.5 lb (8 oz) per 178.5 gallons of water to 1.0 lb (16 oz) per 200 gallons of water	Upon appearance of the insects Use the higher amounts listed when larger larvae are present	
	Nantucket Pine Tip Moth Larvae	1.0 lb (16 oz) per 125 gallons of water	Consult your local County Extension Agent for optimal application timing	
	Root Weevil Adults	1.0 lb (16 oz) per 125 gallons of water	Apply as soon as damage is observed	

PLANTS	PESTS CONTROLLED	ACEPHATE 90% SP APPLICATION RATE	APPLICATION TIMING	SPECIFIC INSTRUCTIONS
	Box Elder Bugs Sawflies Budworms Leafhoppers	1 0 lb (16 oz) per 125 gallons of water	Upon appearance of the insects	
	Japanese Beetle	1 0 lb (16 oz) per 91 gallons of water	Apply as soon as insects are observed	
	Elm Leaf Beetle (larvae)	1 0 lb (16 oz) per 91 gallons of water	As the larvae begin to appear Acephate 90% SP will not prevent Elm Leaf Beetle eggs from hatching	
Douglas Fir (Christmas Trees)	Douglas Fir Needle Midge	0 5 lb (8 oz) (0 5 lb per acre)	Application should be made within two weeks of bud burst For current best practices 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 RESTRICTION Do not apply more than once per season
Flowering Crabapples	Aphids Tent Caterpillars Leafrollers	0 5 lb (8 oz) per 178 5 gallons of water	Upon appearance of the insects	Do not apply more often than 3 times in a growing season (using a minimum of 4 week intervals) Phytotoxicity has been documented on the following crabapple varieties Hopa Ichonoski Malusfloribunda Pink Perfection Red Wine and Snow Cloud RESTRICTION Do not apply more often than 3 times in a growing season (using a minimum of 4 week intervals)

GOLF COURSE AND SOD FARM TURFGRASS

USE RESTRICTIONS

- 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*

APPLICATION 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 necessary to obtain good coverage	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)		
Chinch Bugs	1 to 1.6 oz (2.75 to 4.4 lbs / acre)	Use 1 to 15 gals of water per 1 000 sq ft as necessary to obtain good coverage	Use the higher amount when quick knockdown is needed or with heavy infestations To maintain control repeat applications at 7 day intervals may be necessary
Fleas	1 to 1.6 oz (2.75 to 4.4 lbs / acre)		
Sod Webworm (Crambus spp)	0.4 to 0.83 oz (1.1 to 2.25 lbs / acre)		
Leafhopper	0.83 oz (2.25 lbs / acre)		

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	For best results apply after irrigating in the late afternoon or early evening Do not irrigate after application 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, 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. More than one application may be required for knockdown of existing populations. Allow at least 7 days between applications. For heavy infestations use the higher dosage rate.
Greenbug (<i>Schizaphis graminum</i>) 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 1/2 inch) Use the higher rate for severe infestations

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 EXCLUDING RESIDENTIAL TURF

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

USE RESTRICTIONS

- For sod farms allow at least 3 days between last application and harvest
Do not allow livestock to graze treated areas
Do not feed treated grass to livestock
- NOT for outdoor residential use on lawns turf home gardens ornamentals flowers shrubs or trees

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 RESTRICTIONS

- NOT for outdoor residential use on lawns turf home gardens ornamentals flowers shrubs or trees
- The use of low pressure handwand equipment for perimeter wasp treatment is prohibited

APPLICATION INSTRUCTIONS

- Apply as soon as insects appear

PEST CONTROLLED	ACEPHATE 90% SP APPLICATION RATE (PER 6 GALLONS)	SPECIAL INSTRUCTIONS	APPLICATION INSTRUCTIONS
Wasps	8 0 oz (0 5 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 Harvester Ants) Crickets Cockroaches Earwigs Pillbugs	8 0 oz (0 5 lb)		Apply to the ground within 6 to 10 feet of the structure and to a height of 2 to 3 feet on the foundation 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

OUTDOOR FLORAL CROPS AND GROUND COVERS

USE RESTRICTIONS

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

NOT for outdoor residential use on lawns turf home gardens ornamentals flowers shrubs or trees

USE PRECAUTIONS

- 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

APPLICATION 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
PLANTS	PESTS CONTROLLED	ACEPHATE 90 % SP APPLICATION RATE (PER 91 GAL)	APPLICATION TIMING
Roses Boston Ivy	Japanese Beetle	1 0 lb (16 0 oz)	To maintain control repeat applications may be necessary Allow a minimum of 7 days between applications

COMMERCIAL GREENHOUSE FLORAL AND FOLIAGE PLANT CROPS

USE RESTRICTIONS

- 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
- Do not apply in outdoor residential areas
- Do not apply in residential greenhouses
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

USE PRECAUTIONS

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

Blechnum gibbum
Cissus Antarctica
Ficus triangularis
Fittonia verschaffeltii
Maranta leuconeura kerchoveana
Pachystachya lutea
Plectranthus australis
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.

Acaphate 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.

APPLICATION 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	APPLICATION INSTRUCTIONS	SPECIFIC INSTRUCTIONS
Roses	Leafrollers	0.5 lb (8 oz) per 178.5 gallons of water to 1.0 lb (16 oz) per 200 gallons of water	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 For applications greater than 0.5 lbs active ingredient per acre repeat applications at a 7 day minimum spray interval	Use the higher amount listed when large larvae are present
Foliage Plants Anthuriums Cacti Orchids Poinsettia	Aphids	0.5 lb (8 oz) per 178.5 gallons of water	Apply with a hydraulic sprayer as a full coverage spray Allow a minimum of 3 days between applications	A wetting agent may be necessary when applying to difficult to wet foliage
	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	
	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)	0.5 lb (8 oz) per 178.5 gallons of water + Tame® 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® alone at 16 fl oz/100 gals (See Tame® label for instructions)	Apply as a tank mix at a volume that ensures good coverage To avoid potential resistance follow the Tame® label for specific instructions on the alternation of Tame® plus Acephate 90% SP and Tame® alone

PLANTS	PESTS CONTROLLED	ACEPHATE 90 / SP APPLICATION RATE	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 A minimum of 3 days between applications to roses A minimum of 28 days between applications to Carnations and Chrysanthemums	Application to Chrysanthemums and Roses with open flowers will cause injury to the flowers

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 Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or dispose of empty outer bag in the trash as long as WSP is unbroken.

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. To the extent consistent with applicable law, 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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[EPA APPROVAL DATE]