

U.S. ENVIRONMENTAL PROTECTION AGENCY

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

83222-2

MAY 1 0 2007

NOTICE OF PESTICIDE:

x Registration

__ Reregistration (under FIFRA, as amended)

Term of Issuance: conditional

Name of Pesticide Product:

Acephate 90% WSP

Name and Address of Registrant (include ZIP Code):

- J. Oliver Products, LLC
- 3187 Robertson Gin Road

Hernando, MS 38632

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

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

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

- 1. Submit and/or cite all data required for registration of your product when the Agency requires all registrants of similar products to submit such data;
 - 2. You submit the data listed below within 18 months of the date of this Notice.

One Year Storage Stability (Guideline reference no. 830.6317) and Corrosion Characteristics (Guideline reference no. 830.6320).

- 3. You make the following label changes and submit 2 copies of the revised final printed label before you release the product for shipment:
 - a. Add the designation EPA Reg. No. **6**3222-2.
- b. Remove all claims and references to use of the product against public health and structural pests. These include the claims and references cited below. The efficacy data requirements for these pests have not been addressed. Please refer to our letter of April 2, 2007 regarding the data compensation materials needed to address the data requirements for those pests that are being supported through the acephate reregistration process.

Signature of Approving Official:	Date:
majn b. mut	MAY 1.0 2007



- All references to fire and harvester ants in the General Use Restrictions section on page 4. Change the statements "For use on turf, use limited to sod farms and golf courses, except when applying to mound or spot treatment for fire and harvester ant mound." and "Do not apply with low pressure handwand except for control of fire ants as a mound treatment and when used on ornamental trees, shrubs and floral plants grown for non –agricultural or non-commercial use." to read "For use on turf, use limited to sod farms and golf courses." and "Do not apply with low pressure handwand except when used on ornamental trees, shrubs and floral plants grown for non –agricultural or non-commercial use."
- All references to fire ants and wasps in the General Use Guidelines section on page 5. Remove the statement beginning with "Agricultural Uses" and change the Non-Agricultural Uses statement to read as follows: Non-Agricultural Uses- Low-pressure hand wand equipment may only be used on ornamental trees, shrubs and floral plants only when grown for non-agricultural or non-commercial use. In addition, remove the text "or wasp treatment." from the last sentence so that it reads as follows: "Low-pressure hand wand equipment may not be used for perimeter treatment."
- -In the tobacco use table for soil mound treatment on page 25, correct the ant claim to read as follows: Ants (except fire, harvester, carpenter and pharaoh ants).
- In the unspecified non-crop areas table on page 27, correct the ant claim to read as follows: ants (except fire, harvester, carpenter and pharaoh ants).
- In the golf course and sod farm turfgrass use table (page 31), correct the statement, "Use is limited to sod farms and golf courses, except when applying by mound or spot treatment for fire and harvester ant control." to read as follows: Use is limited to sod farms and golf courses.
- c. Remove the added text "except turfgrass" from the non –crop areas table where the use is limited to the use on field borders, fencerows, roadsides, ditch banks, borrow pits and wasteland (page 26).
- d. Add the text "except turfgrass" to the non-crop areas table where the use is not further defined to any specific non-crop area (page 27).
- e. Adjust the application rate for gypsy moth control in the ornamental trees and shrubs table (page 29) so it is no more than the maximum rate being supported for the reregistration of the outdoor ornamental use (1.0 lb a.i./A per 100 gallons of water).
- f. Reformat the specific instructions column for use on ornamental trees and shrubs (except flowering crabapple and Douglas fir) so that the minimum spray intervals specified for the insects listed on page 29 of the table also apply to the insects listed on page 30 of the table. This may be accomplished just by removing the dividing lines placed in the instructions column for the various insects listed for this use.
 - g. Make the updated revisions cited below in the spray drift management section.

-Replace the statement "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." with the following statement: For aerial applications, do not release spray at a height greater than 10 feet above the ground or the crop canopy (consistent with flight safety).

-Replace the first sentence with the following paragraph: A variety of factors including weather conditions, (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product.

- Remove the statement "The applicator must use all other measures necessary to control drift."

h. Please be aware that the electronic version of the label received with your email of May 2, 2007 (the enclosed stamped label) causes certain text (notably on page 22) to appear as a cross-out only because the text is superimposed on the dividing line of the table in which the text appears. It is understood that the enclosed label does not contain any crossed-out text.

4. Submit your enforcement analytical method developed for the subject product to the EPA Analytical Laboratory, 701 Mapes Road, Ft. Mead, MD 20755-5350.

It is understood that the revised Confidential Statement of Formula (CSF) dated April 10, 2007 replaces all other CSFs submitted for the subject product.

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

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

Sincerely,

Marilyn A. Mautz

Biologist

Insecticide-Rodenticide Branch Registration Division (7504P)

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Acephate 90% WSP

(Insecticide)



I. Oliver Products, LLC3187 Robertson Gin Rd.Hernando, MS 38632

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Next Page for Additional Precautionary Statements

EPA Reg. No.: EPA Est. No.:

(WATER SOLUBLE PACKETS)

Batch. No.: See Bag

Net Weight: 5 Pounds

(Contains Two 2.5 Lb. WSP Packets)

with COMENTS
in EPA Letter Dated:

MAY 10 2007
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
As amended, for the pesticide
Registered under EPA Reg. No.

5/43.

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.

	FIRST AID
<u> </u>	Acephate is an organophosphate, cholinesterase inhibitor
If swallowed:	Call a poison control center or doctor immediately for treatment advice.
	Have person sip a glass of water if able to swallow.
	Do not induce vomiting unless told to do so by the poison control center or doctor.
Te:	Do not give anything by mouth to an unconscious person. Hold eye open and rinse slowly and gently with water for 15-20 minutes.
If in eyes:	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	Take off contaminated clothing.
clothing:	Rinse skin immediately with plenty of water for 15-20 minutes.
	Call a poison control center or doctor for treatment advice.
If inhaled:	Move person to fresh air.
ar minutea.	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.

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 using engineering controls 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, have immediately available and must 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.

This product and it's 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.

GENERAL USE RESTRICTIONS

For use on turf, use limited to sod farms and golf courses, except when applying to mound or spot treatment for fire ant and harvester ant control.

Do not apply with low pressure handwand except for control of fire ants as a mound treatment and when used on ornamental trees, shrubs and floral plants grown for non-agricultural or non-commercial use.

Not for indoor residential use. For greenhouse and tobacco (floatbed application) use, use is limited to commercial greenhouses for use on ornamental, floral and foliage plants.

GENERAL INFORMATION

Acephate 90% WSP is a soluble powder used as an insecticide for control of pests on selected agriculture crops and in certain non-crop areas. The active ingredient in Acephate 90% WSP us 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 horticulture practice, it is the responsibility of the user to ensure that Acephate 90% WSP 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 PRECAUSTIONARY 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.

AGRICULTURE USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Workers 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 Workers Protection Standard.

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

PPE required for early entry to treated areas that is permitted under the Workers 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.5

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% WSP 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% WSP is NOT for indoor residential use.

TANK MIXES

- When tank mixing Acephate 90% WSP 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.

WATER SOLUBLE PACKAGING

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%WSP. 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

- Drop the unopened packet(s) of Acephate 90% WSP into a spray tank containing at least one-half the total quantity of water required.
- 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% WSP.
- 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% WSP Application Rate (per Acre)	Acres Treated by a Single 1/2 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% WSP 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% WSP 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

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% WSP 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 interval 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 PRECAUTIONS:

- Trim and remove all celery tops before shipment for use.
- 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: By Air:

Apply using 50 to 100 gallons / acre of spray.

Apply in a minimum of 5 gallons / acre of spray.

PESTS CONTROLLED	ACEPHATE 90% WSP 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 that	an 2.2 lbs. per acre (2 lbs. activ	e ingredient) 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: By Air:

Apply using 25 to 150 gallons/acre of spray. Apply in a minimum of 5 gals/A of spray.

PESTS CONTROLLED	ACEPHATE 90% WSP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
Green Peach Aphid	(To maintain control:
	0.5 to 1.1 lbs. (8 to 17.6 oz.)	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 PRECAUTIONS:

- 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% WSP 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:

l	By Ground:	pply using 3 to 5 gallons of	spray per acre.
	PESTS CONTROLLED	ACEPHATE 90% WSP APPLICATION RATE	. SPECIFIC INSTRUCTIONS
	Aphids (excluding	(PER ACRE)	Use only flat-fan nozzles.
	Cotton Aphids in AZ and CA)	0.56 to 1.1 lbs.	Verify that the nozzles are aligned to maximize spray deposition into the seed furrow.
	Black (Greasy) Cutworm (Except CA) Thrips (including	NOTE: For the Blacklands Region of	Securely fasten spray-system tubing to furrow opener and check frequently to ensure proper positioning and operation.
	Western Flower Thrips)	Texas, use the 1.1 lbs./acre application rate	Acephate 90% WSP can be mixed with fungicides that are sprayed

FOLIAR APPLICATION:

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

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.

l		Servicino or object ber zere.	
	PESTS CONTROLLED	ACEPHATE 90% WSP 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.*

PESTS CONTROLLED	ACEPHATE 90% WSP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
		Use the highest rate listed for Lygus adults that have migrated into cotton.
	0.25 to 1.0 lb.	To maintain control:
Plantbugs (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.*
	0.5 to 1.0 to	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.*
,	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.
Cotton Aphids		To maintain control:
(excluding AZ and CA)		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:
Whitefly (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, 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.*

PESTS CONTROLLED ACEPHATE 90% WSP APPLICATION RATE (PER ACRE)		SPECIFIC INSTRUCTIONS	
		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.	Use 0.5 lbs./acre for mild infestations.	
(Adults, Larvae)	(East of Rockies)	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®	0.25 to 0.5 lb.	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 u 7-day spray intervals.*		
		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	
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.*	

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

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

USE PRECAUTIONS:

- Acephate 90% WSP 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% WSP may be considered adulterated under state and federal laws if sold or shipped as food
 or feedstuffs. Seed commercially treated with Acephate 90% WSP 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% WSP (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% WSP can be tank mixed with most fungicide seed treatments
Black (Greasy) Cutworm	0.5 lb. (8.0 oz.)	Provides protection against Black (Greasy) Cutworm from planting through the 3 rd to 4 th leaf stage of development.	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.

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, (28 days when applying with Scout X-TRA).

- Do not apply more than 4.4 pounds per acre (4 lbs. of active ingredient) per season. This includes all uses
 of Acephate 90% WSP 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% WSP:
 - 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.
 - 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% WSP + TANK MIX PARTNER (PER ACRE)	SPECIFIC INSTRUCTIONS
Aphids	Acephate 90% WSF +	0.5 to 1.0 lb.	To maintain control:
Bollworm Cabbage Looper	one of the following:	one of the following:	For applications of 0.5 lbs. or less active ingredient per acre, repeat applications at
Cotton Leaf Perforator	Ammo® 2.5 EC*	Refer to the Ammo® 2.5	3-day spray intervals as necessary.*
Cutworms	Ammo 2.3 EC*	EC approved label for useinstructions.	For applications greater than 0.5 lbs. active ingredient per acre, repeat applications a
Fall Armyworms Fleahoppers	Asana [®] XL*	Refer to the Asana® XL approved label for use	7-day spray intervals as necessary.*
Pink Bollworm		instructions.	For Stinkbugs and Cutworms:
(AZ & CA) Plantbugs	Baythroid® 2 EC	Refer to the Baythroid® 2 EC approved label for use	Use 0.8 lb. / acre of Acephate 90% WSP
Stinkbugs		instructions.	Special Instructions for Cutworms:
Sweetpotato/ Silverleaf Whitefly	Capture® 2 EC	Refer to the Capture® 2 EC approved label for use	Apply by ground application; aerial applications are less effective, but may be also used.
Thrips (including Western Flower Thrips)	Karate® 1E (except CA)	Refer to the Karate® 1E approved label for use	For best results when making ground applications:
Tobacco Budworm Whitefly	Scout X-TRA® (except CA)	Refer to the Scout X-TRA® approved label for use instructions.	Apply in the evening Direct spray to the lower portion and base of plant.

*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 PRECAUTIONS:

- 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% WSP APPLICATION RATE
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:

Acceptate 90% WSP 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 wisystem 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% WSP 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 ingredien	
Armyworms (excluding Beet Armyworm) Cabbage Looper	1.1 lbs. (17.6 oz.)	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.*	

*Do not apply more than 2.2 lbs./A (2 lbs. a.i.) per season.

MINT (PEPPERMINT AND SPEARMINT)

USE PRECAUTIONS:

- 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% WSP 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.

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- 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% WSP:
 - 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.
 - 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% WSP APPLICATION RATE	SPECIFIC INSTRUCTIONS
Grasshoppers	(PER ACRE) 0.25 to 0.5 lb. (4 to 8 oz.)	Apply when eggs or insects first appear.
Thrips	0.4 to 0.8 lb.	To maintain control: For applications of 0.5 lbs. or less active
Corn Earworm Fall Armyworm Leafhoppers Loopers Velvethean Caternillar	0.8 to 1.1 lbs. (12.8 to 17.6 oz.)	ingredient per acre, repeat applications at 3-day spray intervals as necessary.* For appli cations greater than 0.5 lbs. active ingredient per acre, repeat applications at 7-day spray intervals as necessary.*

SOYBEANS

USE PRECAUTIONS:

- Do not graze or cut vines for hay or forage
- Do not apply within 14 days of harvest
- Do not apply more than 1.66 lbs/A (1.5 lbs ai/A) per season
- When using rates up to 0.56 lb/A, allow 3 days between applications.
- When using rates between 0.56 lb/A and 1.1 lbs/A, allow 7 days between applications.

FOLIAR APPLICATIONS:

By Ground: 10 to 50 gallons/Acre of spray. By Air: 5 to 10 gallon/Acre of spray

PEST CONTROLLED	ACEPHATE 90% WSP APPLICATION PER ACRE	SPECIFIC INSTRUCTIONS
Grasshopper Thrips	0.28 to 0.56 lb	Treatment can be repeated as necessary to maintain control, but do not exceeed 1.66 lbs/per acre (1.5lbs. ai/A) per season.
Potato Leafhopper Stink Bugs Armyworms (except Beet) Bean Leaf Beetle Cabbage Looper Mexican Bean Beetle Soybean Aphid Three-cornered Alfalfa Hopper Velvetbean Caterpillar	0.56 to 1.1 lbs. 0.83 to 1.1 lbs.	
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PEPPERS, BELL

USE PRECAUTIONS:

- Do not apply more than 2.2 pounds per acre (2 lbs. of activé 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% WSP APPLICATION RATE	SPECIFIC INSTRUCTIONS
Grasshoppers	(PER ACRE) 0.25 to 0.5 lb. (4 to 8 oz.)	To maintain control: For applications of 0.5 lbs. or less active
Cabbage Looper Green Peach Aphid Tobacco Homworm	0.5 to 1.1 lbs. (8 to 17.6 lbs.)	ingredient per acre, repeat applications at 3-da spray intervals as necessary.* For applications greater than 0.5 lbs. active ingredient per acre, repeat applications at 7-da spray intervals as necessary.*
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 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% WSP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
Aphids	0.5 lb. (8 oz.)	To maintain control, make repeat applications using 3-day spray intervals.*

ply more than 1.1 pounds per acre (1 lbs. of active ingredient.) per season.

TOBACCO

USE PRECAUTIONS:

- Do not apply more than 0.8 lb. Acephate 90% WSP per acre as a transplant-water application as phytotoxicity may occur.
- Do not apply more than 4.4 lbs of Acephate 90%WSP per acre (4 lbs. active ingredient) per season. This
 includes the use of Acephate 90%WSP 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% WSP APPLICATION RATE	SPECIFIC INSTRUCTIONS
FLOATBED	Cutworm Flea Beetle Green Peach Aphid Tobacco Aphid	(PER ACRE) 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	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.*

APPLICATION METHOD	PESTS CONTROLLED	ACEPHATE 90% WSP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
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. 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.
	Grasshoppers	0.25 to 0.5 lb. (4 to 8 oz.)	To maintain control: Repeat applications at 3-day spray intervals as necessary.*
FOLIAR By Ground: Apply using 10	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.*
by Air: Apply using a Minimum of 3 gallons per acre	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.*

APPLICATION METHOD	PESTS CONTROLLED	ACEPHATE 90% WSP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
	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.
FOLIAR 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 ingredients 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 (except: Fire Ants, Harvester Ants, Carpenter Ants, and Pharaoh 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 (except Fire, Harvester, Carpenter, and Pharaoh 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 application may be made as necessary to maintain control.

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NON-CROP AREAS (EXCEPT TURFGRASS)

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.

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% WSP APPLICATION RATE	SPECIFIC INSTRUCTIONS
Grasshoppers	(PER ACRE) 0.25 lb. (4 oz.)	Use of an approved drift retardant to assist in controlling

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% WSP 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 PRECAUTIONS:

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

PEST CONTROLLED	ACEPHATE 90% WSP APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
		Apply 1 gallon, of mix to each mound area by sprinkling the mound until it is wet.
	Drench Method: Mix 0.5 lb. in 50 gallons of water.	Treat all areas within four feet of the mound.
		Treat a maximum of 13 mounds per acre.
4 (amazus Dhanash		Do not treat more than once per season.
Ants (except Pharoah		For best results:
and Carpenter Ants)		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.

SPECIALTY USES - CONTAINER GROWN ORNAMENTAL 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:

Apply the specified amount of Acephate 90% WSP per 100 gals. of solution so as to thoroughly drench the root system.

PLANTS	PESTS CONTROLLED	ACEPHATE 90% WSP APPLICATION RATE (PER ACRE)	APPLICATION TIMING
Container Grown Draamental Nursery Stock Arborvitae, Asalea, 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 (except, Fire Ants, Harvester Ants, Carpenter Ants, and Pharaoh Ants)		Apply as needed for control.

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.

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% WSP per 100 gallons of water using a hydraulic sprayer.

PLANTS	PESTS CONTROLLED	ACEPHATE 90% WSP APPLICATION RATE	APPLICATION TIMING	SPECIFIC INSTRUCTIONS
	Aphids Bagworms Birch Leafminer	0.5 lb. (8oz.) per 178.5 gallons of water	Upon appearance of the insects.	
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PLANTS	PESTS CONTROLLED	ACEPHATE 90% WSP APPLICATION RATE	APPLICATION TIMING	SPECIFIC INSTRUCTIONS
	Tent Caterpillars* Lace Bugs Leafrollers			
	Douglas Fir Tussock Moth Larvae Gypsy Moth Larvae* Webworms	0.5 lb. (8 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 an necessary. For applications greate than 0.5 lbs. active ingredient per acre, repeat applications at 7-day spray intervals a necessary.
	Scales (Crawlers)	0.5 lb. (8 oz.)	As crawlers begin to appear.	
Ornamental Trees and Shrubs (Except	Ponderosa Pine Needle Miner	0.5 lb. (0.8 oz.)	Consult your local County Extension Agent for optimal application timing.	
Flowering Crabapple,	Grasshoppers	0.5 lb. (0.8 oz.)	Upon appearance of grasshoppers.	Use of a compatible sticker will improve
see below)	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.	control of Gypsy Moth larvae. Mist blower application: Adjust rates to 1.0 lbs. per 75 gals. water for Gypsy Moth control and 1.0 lb. per 100 gals. water for Tent Caterpillar control.
	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.	1

PLANTS	PESTS CONTROLLED	ACEPHATE 90% WSP 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	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 Tree)	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 specific amount of the Acephat 90% WSP in not less than 2 gals. of spray pe acre by air or in 100 gals. of spray per acre by ground (using a minimum of 3- day spray intervals).
Flowering Crabapples		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 minimum of 4 –week intervals). Phytotoxicity has been documented on the following crabapple varieties: Hopa, Ichonoski, Malusfloribunda, Pink Perfection, Red Wine and Snow Cloud.
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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, xcept 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% WSP 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% WSP 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)		
Cinch 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	Use the higher amount when quick knockdown is needed or
Sod Webworm	0.4 to 0.83 oz.	necessary to obtain good	with heavy infestations
(Crambus spp.)	(1.1 to 2.25 lbs. / acre)	coverage.	To maintain control, repeat
Leafhopper	0.83 oz. (2.25 lbs. / acre)		applications at 7-day intervals may be necessary.

PESTS CONTROLLED	ACEPHATE 90% WSP 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% WSP. The following products have been shown to be effective flushing agents: Lemon Palmolive, Lemon Joy, and Mighty Myrt Products Manufacture-Bas Pure Lemon Fragrance. Use 2-teaspoons per gallon of water for smal 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 (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.

PESTS CONTROLLED	ACEPHATE 90%WSP 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% WSP. The following products have beer shown to be effective flushing agents: Lemon Palmolive, Lemon Joy, and Mighty Myrt Products Manufacture-Bas Pure Lemon Fragrance. Use 2-teaspoons per gallon of water for smal 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 (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.

Dichondra (Plant Site for golf course and Sod Farm Turf grass only)					
PESTS CONTROLLED	ACEPHATE 90% WSP APPLICATION RATE (PER100 SQ.FT.)	APPLICATION INSTRUCTIONS	SPECIFIC INSTRUCTIONS		
Cutworms Flea Beetle Southern Armyworm Yellow Striped Armyworm	0.83 to 1.6 oz. (2.25 to 4.4 lbs./acre)	Use minimum of 15 gals. Of water per 1,000 sq.ft. to obtain good coverage.			
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OUTDOOR AND PERMIMET	ER SPRAY		ausgaan jahi ingan sistemata dan katamantan menganggan sagai sagai s		
USE PRECAUTIONS:	inder 2 ME Advini mitte er ut schliebt i ut mittere mit ver				
Not for use on residential turfg	rass				
GENERAL INSTRUCTION:					
Apply as soon as insects appear.					
ni, disaman dilatahan mendinggi sajarahan pengangan pengapangan pengapangan berawa sa mengangan pengangan	and the same and t	33	ы _{бүүдөн б} айда Сараан _д ан азуага усагын аруууланды, үзүн үзүн үзүн		
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PEST CONTROLLED	ACEPHATE 90% WSP APPLICATION RATE (PER 6 GALLONS)	SPECIAL INSTRUCTIONS	APPLICATION INSTRUCTIONS
Ants (except Fire Ants, Harvester Ants, Carpenter Ants, and Pharaoh Ants) Crickets 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 others areas where the insects may occur.
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	OUTDOOR FLORAL	CROPS AND GROUND CO	VERS
USE PRECAUTIONS:			
	reenhouse and outdoor ornament	als, application is limited to 1.0	lb. of active ingredient per 100 gallons of
When used on g water.			
water.	.75 pounds of active ingredient /	acre for cut flowers and 1.0 po	und of active ingredient / acre for all other
water. Do not exceed 0 omamentals. Multiple applica		r marginal leaf necrosis on son	und of active ingredient / acre for all other ne varieties. A test should be made on a all plants.
water. Do not exceed 0 ornamentals. Multiple applica sample plant to 0	tions may cause slight tip burn or determine id unacceptable damag	r marginal leaf necrosis on son	ne varieties. A test should be made on a
water. Do not exceed 0 omamentals. Multiple applica sample plant to 6 GENERAL INSTRUCTION	tions may cause slight tip burn or determine id unacceptable damag	r marginal leaf necrosis on son	ne varieties. A test should be made on a

PLANTS	PESTS CONTROLLED	ACEPHATE 90% WSP 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%WSP 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 days between applications.	

GREENHOUSE FLORAL AND FOLIAGE PLANT CROPS

USE PRECAUTIONS:

Not for residential greenhouse use.

- 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

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%WSP 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% WSP APPLICATION RATE	APPLICATION INSTRUCTIONS	SPECIFIC INSTRUCTIONS
			Apply with a hydraulic sprayer as a full coverage spray.	
	•		To maintain control:	
Roses	Leafrollers	0.5 lb. (8 oz.) per 178.5 gallons of water to 1.0 lb. (16 oz.) per 200 gallons of water.	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 thatn 0.5 lbs. active ingredient per acre, repeat applications at a 7-day minimum spray interval.	
Foliage Plants Anthyriums Cacti	Aphids	0.5 lb. (8 oz.) per 178.5 gallons of water	Apply with a hydraulic sprayer as a full coverage spray.	
Orchids Poinsettia			Allow a minimum of 3 days between applications	
	Mealybugs Thrips Whiteflies	0.5 lb. (8 oz.) per 178.5 gallons of water	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.) per 178.5 gallons of water	To maintain control when there is continuous crawler production, repeat applications at a minimum of 3-day spray intervals.	
		37		

PLANTS	PESTS CONTROLLED	ACEPHATE 90% WSP APPLICATION RATE	APPLICATION INSTRUCTIONS	SPECIFIC INSTRUCTIONS
	Sweet Potato Whiteflies (except CA)	0.5 lb. (8 oz.) per 178.5 gallons of water + TAME® 2.4 EC Spray 10 2/3 ft. 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 volume that ensures good coverage To avoid potential resistance, follow the TAME® label for specific instructions on the alternation of TAME® plus Acephat 90% WSP and TAME® alone.
Roses Camations Chrysanthemums	Aphids Thrips	0.5 lb. (8 oz.) per 178.5 gallons of water	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: Aminimum of 3 days between applications to roses. A minimum of 28 days between applications to Camations and Chrysanthemums.	Application to Chrysanthemums and Roses with open flowers will cause injury to the flowers.
	dition involving possible dr or sale, use or consumption		plantings that might be d	amaged or the crops



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4	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 the 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. 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 the 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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