



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

August 13, 2024

Niamh McMahon
Regulatory Product Manager
AMVAC Chemical Corporation,
4695 MacArthur Court, Suite 1200,
Newport Beach, CA 92660

Subject: Label Amendment – Addition of acephate restrictions per California DPR and update to WSP language
Product Name: ORTHENE 75 S Soluble Powder
EPA Registration Number: 5481-8971
Application Date: September 19, 2017; December 17, 2021
Case Number: 475646, 605573

Dear Niamh McMahon:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find

or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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

If you have any questions, please contact David Gardner at (202) 566-2677 or at gardner.david@epa.gov.

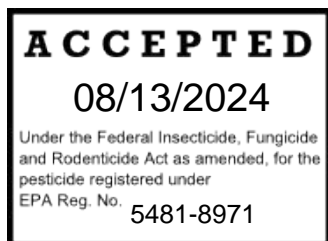
Sincerely,

A handwritten signature in cursive script that reads "Tamica Cain".

Tamica Cain, Product Manager 10
Invertebrate & Vertebrate Branch 2
Registration Division (7505T)

Enclosure

{Note to reviewer: [Text] in brackets denotes optional or explanatory language}
 {Note to reviewer: {Text} in braces denotes where in the final label text will appear}



ACEPHATE	GROUP	1B	INSECTICIDE
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ORTHENE® 75 S

Soluble Powder

[Insecticide in a Water-Soluble Packet]

ACTIVE INGREDIENT	By Weight
*Acephate.....	75.0%
OTHER INGREDIENTS.....	25.0%
Total.....	100.0%

*O,S-Dimethyl acetylphosphoramidothioate

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 by a 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.
NOTE TO PHYSICIAN This material contains 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.	

EMERGENCY INFORMATION
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY: For Medical Emergencies phone:.....1-888-681-4261 For Product Use Information phone: AMVAC®.....1-888-462-6822

For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC®.....1-800-424-9300

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

EPA Reg. No. 5481-8971

Net Contents:

EPA Est. No. _____



[Manufactured For:]
4695 MacArthur Court, Suite 1200,
Newport Beach CA 92660

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Mixers, Loaders, Applicators and Other Handlers must wear:

- Long-sleeved shirt and long pants,
- Chemical-resistant gloves made of any waterproof material.
- Socks plus shoes.

In addition, Mixers and Loader supporting hopper box seed treatments must wear:

A minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air-purifying respirator with a HE filter.

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

A minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air-purifying respirator with a HE filter.

See Engineering Controls for additional requirements.

Engineering Controls:

Water soluble packets, when used correctly, qualify as a closed mixing/loading system under the Worker Protection Standard [40 CFR 170.607(d)]. Mixers and loaders handling this product while it is enclosed in intact water soluble packets may elect to wear reduced PPE of long-sleeved shirt, long pants, shoes, socks. When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for “applicators and other handlers” and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

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)].

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. As soon as possible, wash thoroughly and change into clean clothing.

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.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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. Cover or soil-incorporate spills.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

This product and its degradate are highly toxic to bees exposed to direct treatment 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.

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.

DIRECTIONS FOR USE

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

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

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

AGRICULTURAL USE REQUIREMENTS

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

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- coveralls,
- chemical-resistant gloves made 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 or dusts have settled.

TANK MIXES

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Read and follow the entire label of each product to be used in the tank mix with this product.

WATER SOLUBLE PACKAGING

Instructions for Using Water Soluble Packages Directly into Spray tanks:

Water Soluble Packages (WSPs) are designed to dissolve in water. Agitation may be used, if necessary, to help dissolve the WSP. Failure to follow handling and mixing instructions can increase your exposure to the pesticide products in WSPs. WSPs, when used properly, qualify as a closed mixing/loading system under the Agricultural Worker Protection Standard [40 CFR 170.607(d)].

Handling Instructions

Follow these steps when handling pesticide products in WSPs.

1. Mix in spray tank only.
2. Handle WSP(s) in a manner that protects package from breakage and/or unintended release of contents. If package is broken, put on PPE required for clean-up and then continue with mixing instructions.
3. Keep the WSP(s) in outer packaging until just before use.
4. Keep the WSP dry prior to adding to the spray tank.
5. Handle with dry gloves and according to the label instructions for PPE.
6. Keep WSP intact. Do not cut or puncture WSP.
7. Reseal the WSP outer packaging to protect any unused WSP(s).

Mixing Instructions

Follow the steps below when mixing this product, including if tank mixed with other pesticide products. If being tank mixed, the mixing directions 1 through 9 below take precedence over the mixing directions of the other tank mix products. WSPs may, in some cases, be mixed with other pesticide products so long as the directions for use of all mixed products do not conflict. Do not tank mix this product with products that prohibit tank mixing or have conflicting mixing directions.

1. If a basket or strainer is present in the tank hatch, remove prior to adding the WSP to the tank.
2. Fill tank with water to approximately one-third to one-half of the desired final volume of spray.
3. Stop adding water and stop any agitation.
4. Place intact/unopened WSP(s) into the tank.
5. Do not spray water from a hose or fill pipe to break or dissolve the WSP(s).
6. Start mechanical and recirculation agitation from the bottom of tank without using any overhead recirculation, if possible. If overhead recirculation cannot be turned off, close the hatch before starting agitation.
7. Dissolving the WSP(s) may take up to 5 minutes or longer, depending on water temperature, water hardness and intensity of agitation.
8. Stop agitation before tank lid is opened.
9. Open the lid to the tank, exercising caution to avoid contact with dusts or spray mix, to verify that the WSPs have fully dissolved and the contents have been thoroughly mixed into the solution.
10. Do not add other allowed products or complete filling the tank until the bags have fully dissolved and pesticide is thoroughly mixed.
11. Once the WSP have fully dissolved and any other products have been added to the tank, resume filling the tank with water to the desired level, close the tank lid, and resume agitation.
12. Use the spray solution when mixing is complete.
13. Maintain agitation of the diluted pesticide mix during transport and application.
14. It is unlawful to use any registered pesticide, including WSPs, in a manner inconsistent with its label.

{ note to reviewer-only one of these following statements may appear on the label depending on packaging configuration }

[MULTIPLE PACKAGING

This bag contains multiple water soluble packets of Orthene 75 S Soluble Powder. Do not handle the packets with wet gloves or allow the packets to become wet prior to addition to spray tank. Do not break open packets.

Refer to the Tables of Equivalents to calculate the number of packets to use. If all packets are not used, close and reseal outer container to protect remaining packet(s).]

[SINGLE PACKAGING

This bag contains one water soluble packet of Orthene 75 S Soluble Powder. Do not handle the packet with wet gloves or allow the packet to become wet prior to addition to spray tank. Do not break open packet. Refer to the Tables of Equivalents to calculate the number of packets to use. Open outer bag by pulling perforated tearstrip and drop the unopened inner packet of Orthene 75 S Soluble Powder into spray tank.]

TABLES OF EQUIVALENTS

Amount of Product	2 2/3 lb.	1 1/3 lbs.	1 lb.	2/3 lb.	1/3 lb.	1/4 lb.	1/8 lb.
Amount of Product	42.6 oz.	21.3 oz.	16 oz.	10.6 oz.	5.3 oz.	4 oz.	2 oz.
Amount Active Contained	2 lb.	1 lb.	3/4 lb.	1/2 lb.	1/4 lb.	1/5 lb.	1/10 lb.

{ note to reviewer-only one set of the following tables may appear on the label depending on packaging configuration and application instructions rate units (per acre/per 100 Gals water/per 1,000 sq. ft.) as appropriate}

[Table of Equivalents for 1/3 lb. Packet

Product Rate per Acre	Acres Treated by a 1/3 lb. Packet
1/4 lb. (4 oz.)	1.33
1/3 lb. (5.3 oz.)	1.00
2/3 lb. (10.6 oz.)	0.50
1 lb. (16 oz.)	0.33
1 1/3 lbs. (21.3 oz.)	0.25
2 2/3 lbs. (42.6 oz.)	0.13

[Table of Equivalents for 2 lb. Packet

Product Rate per Acre	Acres Treated by a 2 lb. Packet
1/4 lb. (4 oz.)	8.00
1/3 lb. (5.3 oz.)	6.00
2/3 lb. (10.6 oz.)	3.00
1 lb. (16 oz.)	2.00
1 1/3 lbs. (21.3 oz.)	1.50
2 2/3 lbs. (42.6 oz.)	0.75

[Table of Equivalents for 1 lb. Packet

Product Rate per Acre	Acres Treated by a 1 lb. Packet
1/4 lb. (4 oz.)	4.00
1/3 lb. (5.3 oz.)	3.00
2/3 lb. (10.6 oz.)	1.50
1 lb. (16 oz.)	1.00
1 1/3 lbs. (21.3 oz.)	0.75
2 2/3 lbs. (42.6 oz.)	0.38

[Table of Equivalents for 2 1/2 lb. Packet

Product Rate per Acre	Acres Treated by a 2 1/2 lb. Packet
1/4 lb. (4 oz.)	10.00
1/3 lb. (5.3 oz.)	7.50
2/3 lb. (10.6 oz.)	3.75
1 lb. (16 oz.)	2.50
1 1/3 lbs. (21.3 oz.)	1.88
2 2/3 lbs. (42.6 oz.)	0.94

[Table of Equivalents for 5 lb. Packet

Product Rate per Acre	Acres Treated by a 5 lb. Packet
1/4 lb. (4 oz.)	20.00
1/3 lb. (5.3 oz.)	15.00
2/3 lb. (10.6 oz.)	7.50
1 lb. (16 oz.)	5.00
1 1/3 lbs. (21.3 oz.)	3.75
2 2/3 lbs. (42.6 oz.)	1.88

[Table of Equivalents for 1/3 lb. Packet]

Product Rates per 100 Gals. of Water	Number of 1/3 lb. Packet(s) per 100 Gals. of Water
1/3 lb. (5.3 oz.)	1
2/3 lb. (10.6 oz.)	2
1 lb. (16 oz.)	3
1 1/3 lbs. (21.3 oz.)	4

Product Rates		Treatment Area per 1/3 lb. Packet(s)	
Per Acre	Per 1,000 sq. ft.	Acres	sq. ft.
1 1/3 lbs. (21.3 oz.)	0.5 oz.	0.25	11,000
2 2/3 lbs. (42.6 oz.)	1.0 oz.	0.12	5,400

[Table of Equivalents for 2 lb. Packet]

Product Rates per 100 Gals. of Water	Number of Gallons of Water per 2 lb. Packet
1/3 lb. (5.3 oz.)	600
2/3 lb. (10.6 oz.)	300
1 lb. (16 oz.)	200
1 1/3 lbs. (21.3 oz.)	150

Product Rates		Treatment Area per 2 lb. Packet	
Per Acre	Per 1,000 sq. ft.	Acres	sq. ft.
1 1/3 lbs. (21.3 oz.)	0.5 oz.	1.50	64,000
2 2/3 lbs. (42.6 oz.)	1.0 oz.	0.75	32,000

PRODUCT INFORMATION

Orthene 75 S Soluble Powder is an insecticide for control of pests on selected agricultural crops and in certain non-crop areas. The active ingredient in Orthene 75 S Soluble Powder is acephate, a water-soluble insecticide readily absorbed by plant roots and foliage to give systemic control of feeding insects. Insect pests are generally controlled more effectively by Orthene 75 S Soluble Powder through ingestion than by contact. Application of Orthene 75 S Soluble Powder to maintain control should be repeated only as directed.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY AND/OR ILLEGAL RESIDUES.

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. Not for use in residential greenhouses.
- For greenhouse use, use is limited to commercial greenhouses for use on ornamental plants, floral crops, ground covers and foliage plant crops (plants not produced for cut flower production) and tobacco (floatbed application).

CHEMIGATION

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

SPRAY DRIFT MANAGEMENT

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. 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.

- All aerial, ground and air-assisted/airblast application equipment must be properly maintained and calibrated using water as carrier. *{This sentence to be used for products NOT containing "NON-CROP AREAS – Wasteland":}* [Do not apply this product as an ultralow (ULV) spray, or in any carrier other than water]. *{This sentence to be used for products containing "NON-CROP AREAS - Wasteland:}* [Do not apply this product as an ultralow (ULV) spray, or in any carrier other than water, except as specified in the use instructions for "NON-CROP AREAS – Wasteland"]
- Use the largest droplet size consistent with good pest control. Small droplets are more prone to spray drift and can be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
- Do not apply at wind speeds greater than 10 mph at the application site.
- Make applications when wind velocity favors on-target product deposition (approximately 3 to 10 mph).
- Apply as close to target plants as practical to obtain a good spray pattern for adequate coverage.
- For aerial applications, do not apply at heights greater than 10 feet (consistent with flight safety).
- 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 to 10 mph at the application site as measured by an anemometer outside of the treated area on the upwind side.
- For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or rotor diameter. 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 to 10 mph as measured by an anemometer. Use medium or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground.
- 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 medium or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. The applicator also must use all other measures necessary to control drift.

Resistance Management

For resistance management, ORTHENE 75 S Soluble Powder contains acephate, a Group 1 insecticide. Any insect population may contain individuals naturally resistant to ORTHENE 75 S Soluble Powder and other Group 1 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same locations. Appropriate resistance management strategies should be followed.

To delay insecticide resistance, take one or more of the following steps:

- Rotate the use of ORTHENE 75 S Soluble Powder or other Group 1 insecticides within the year with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of the mixture. In addition, consider the following recommendations from the Insect resistance Action Committee (IRAC):
 - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pests.
 - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - The insect resistance management benefits of an insecticide mixture are greater if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated insect management program for insecticide use that includes scouting, uses historical information related to pesticide use record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or pest control advisor for any additional pesticide resistance-management and/or IPM recommendations for specific site and pest problems in your area.

For further information or to report suspected resistance contact AMVAC at (1-888-462-6822). You can also contact your pesticide distributor or university extension specialist to report resistance.

BEANS AND LIMA BEANS - Dry Forms only and Succulent Green Beans Grown Only for Seed.

USE RESTRICTIONS

- Do not feed treated vines to livestock.
- Do not apply more than 2 2/3 lbs. product/A (2 lbs. a.i.) Orthene 75 S Soluble Powder per year.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 2/3 lb. product /A, and a minimum of 7 days for rates exceeding 2/3 lb. product/A.

RESTRICTIONS: Use on succulent green beans as a food crop is prohibited (includes lima beans, string beans, snap beans and wax beans). Succulent green bean use is permitted ONLY if grown for seed.

RESTRICTIONS FOR SUCCULENT GREEN BEANS GROWN FOR SEED:

- Do not feed crop residues to livestock or allow animals to graze treated areas.
- Do not apply to succulent green beans grown for fresh market or processing.
- No portion of the succulent green bean plant may be used or distributed for food or feed purposes.
- Seeds grown from succulent green beans shall bear a tag or container label which forbids use of the seed for human consumption or animal feed.
- Seed grown from succulent green beans may not be distributed for human consumption or animal feed.

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS	DAYS TO HARVEST
FOLIAR By Ground: 20 to 100 gals. product/A of spray By Air: Minimum of 2 gals. product/A of spray	Fleahopper Grasshopper	1/3 to 2/3 lb.	Apply when eggs or insects first appear.	14
	Aphid (excluding Black Bean Aphid) Bean Leaf Beetle Bean Leafroller Cabbage Looper Cutworms Green Cloverworm Leafhopper Mexican Bean Beetle Plantbugs (Lygus) Soybean Looper Thrips Whitefly (except Sweetpotato or Silverleaf Whitefly) Brown Marmorated Stinkbug (except CA)	2/3 to 1 1/3 lbs.	Use higher listed rates for severe insect infestations.	
	Armyworm (excluding Beet Armyworm) Corn Earworm European Corn Borer	1 to 1 1/3 lbs.		

CELERY

USE RESTRICTIONS

- Do not apply more than 2 2/3 lbs. Orthene 75 S Soluble Powder (2 lbs. a.i.) /A per crop cycle.
- Do not apply more than 5 1/3 lbs. Orthene 75 S Soluble Powder (4 lbs. a.i.)/A per year.
- All celery must be trimmed (tops removed) before shipment for use.
- Do not use trimmed tops for food or feed.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 2/3 lb. product/A and a minimum of 7 days for rates exceeding 2/3 lb. product/A.

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS	DAYS TO HARVEST
FOLIAR By Ground: 50 to 100 gals. product/A of spray By Air: Minimum of 5 gals. product/A of spray	Green Peach Aphid	2/3 to 1 1/3 lbs.	Apply when eggs or insects first appear.	21
	Cabbage Looper Fall Armyworms	1 1/3 lbs.		

COLE CROPS – Brussels Sprouts and Cauliflower

USE RESTRICTIONS

- Do not apply more than 2 2/3 lbs. Orthene 75 S Soluble Powder (2 lbs. a.i.) /A per crop cycle.
- Do not apply more than 5 1/3 lbs. Orthene 75 S Soluble Powder (4 lbs. a.i.)/A per year.
- Do not feed trimmings to livestock or allow animals to graze in treated areas.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 2/3 lb. product/A and a minimum of 7 days for rates exceeding 2/3 lb. product/A.

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS	DAYS TO HARVEST
FOLIAR By Ground: 25 to 150 gals. product/A of spray By Air: Minimum of 5 gals. product/A of spray	Green Peach Aphid	2/3 to 1 1/3 lbs.	Use the higher listed rate when heavy infestations of aphids are present.	14
	Cabbage Looper Diamondback Moth Larvae Imported Cabbage Worm	1 1/3 lbs.	Apply when eggs or insects first appear. Diamondback Moth Larvae: This insect has demonstrated an ability to develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current recommended control practices for this insect.	

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 apply more than 5 1/3 lbs. Orthene 75 S Soluble Powder (4 lbs. of a.i.) /A per year. This includes all foliar spray, in-furrow application and seed treatment uses.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 2/3 lb. product/A and a minimum of 7 days for rates exceeding 2/3 lb. product/A.

For Aerial Application:

- Do not apply more than 1 1/3 lbs. Orthene 75 S Soluble Powder/A per application to cotton grown in AZ and CA.
- Do not apply more than 1 lb. Orthene 75 S Soluble Powder/A per application to cotton grown in all other states except AZ and CA.

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS	DAYS TO HARVEST
IN-FURROW By Ground: 3 to 5 gals./A of spray.	Aphids (excluding Cotton Aphids in AZ & CA) Black (Greasy) Cutworm (except CA) Thrips (including Western Flower Thrips)	2/3 to 1 1/3 lbs. NOTE: For the Blacklands of Texas use 1 1/3 lbs. product/A.	Use flat fan nozzles for in-furrow application. Align nozzles to ensure good spray deposition into the seed furrow. Cone type nozzles are not recommended since unacceptable spray deposition may occur. Securely fasten spray system tubing to furrow opener and check frequently to ensure proper positioning and operation. Product can be mixed with fungicides that are sprayed in-furrow for disease control.	

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS	DAYS TO HARVEST
FOLIAR By Ground: 10 to 25 gals. product/A of spray. By Air: 3 to 10 gals. product/A of spray (minimum of 5 gals. product/A in AZ & CA)	Thrips (including Western Flower Thrips)	3 oz. to 4 oz.	Apply when eggs or insects first appear.	21
	Plantbugs (Lygus)	1/3 to 1 1/3 lbs. 1 to 1 1/3 lbs. (AZ & CA)	Apply when eggs or insects first appear. Use higher listed rate for Lygus adults that have migrated into cotton.	21
	Fleahopper	1/3 lb.	Apply when eggs or insects first appear.	21
	Cotton Aphid (excluding AZ & CA)	2/3 to 1 1/3 lbs.	This insect may develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current control recommendations.	21
	Whitefly (excluding Silverleaf Whitefly/Sweetpotato Whitefly)	2/3 to 1 1/3 lbs.		21
	Armyworms (excluding Beet Armyworm) Cabbage Looper	1 1/3 lbs.	Apply when eggs first appear.	21
	Bollworm Tobacco Budworm Adults Larvae Eggs/ <i>Deadhatch</i> ®	2/3 to 1 1/3 lbs. (East of Rockies) 1 1/3 lbs. (AZ & CA) 1/3 to 2/3 lb.	Early Season: Use 2/3 lb. /A for light infestation. Mid and Late Season: Use 1 to 1 1/3 lbs. product/A for moderate to severe infestations. Apply when eggs first appear. Moths of budworm larvae are controlled by direct contact with spray. Moth kill is most likely to occur when late evening applications are made. <i>Deadhatch:</i> Control of emerging larvae by consumption of treated egg casings.	21
	Stinkbugs	1 lb.	Apply when eggs first appear.	21
	Pink Bollworm (AZ & CA)	1 1/3 lbs.	Apply when insects first appear.	21
	Cutworms	1 lb.	Ground application is recommended. Aerial applications are less effective, but may be used. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant. Apply when insects first appear or damage is first noted.	21

RESISTANCE MANAGEMENT

Cotton pest control programs, especially those for control of Silverleaf Whitefly populations, should employ a properly designed resistance management strategy. Such resistance management strategies include mixture or rotation of alternative classes of chemistry including organophosphates, carbamates, pyrethroids or insect growth regulators. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternative insecticides.

COTTON TANK MIXES WITH PYRETHROIDS

USE RESTRICTIONS

- Do not feed gin trash or treated forage to livestock.
- Do not allow livestock to graze on treated areas.
- Do not apply more than 5 1/3 lbs. Orthene 75 S Soluble Powder (4 lbs. a.i.) /A per year. This includes all foliar spray, in-furrow application and seed treatment uses.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 2/3 lb. product/A and a minimum of 7 days for rates exceeding 2/3 lb. product/A.

For Aerial Application:

- Do not apply more than 1 1/3 lbs. Orthene 75 S Soluble Powder/A per application to cotton grown in AZ and CA.
- Do not apply more than 1 lb. Orthene 75 S Soluble Powder/A per application to cotton grown in all other states except AZ and CA.

Synthetic pyrethroids should be used within the guidelines of state and/or regional resistance management programs and recommendations.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

APPLICATION METHOD	PESTS CONTROLLED	ORTHENE 75 S AND TANK MIX PARTNER	AMOUNT OFFPRODUCT + TANK MIX PARTNER PER ACRE	APPLICATION INSTRUCTIONS	DAYS TO HARVEST
FOLIAR By Ground: 10 to 25 gals. product/A spray. By Air: 3 to 5 gals. product/A spray (minimum 5 gals. product/A in AZ and CA). See aerial application instructions for Cutworms.	Aphids Bollworm Cabbage Looper Cotton Leaf Perforator Cutworms Fall Armyworm Fleahoppers Pink Bollworm (AZ & CA) Plantbugs Stinkbugs Sweetpotato/Silverleaf Whitefly Thrips (including Western Flower Thrips) Tobacco Budworm Whitefly	Orthene 75 S Soluble Powder	2/3 to 1 1/3 lbs. product/A	Apply when eggs or insects first appear.	21
		+	+	Stinkbugs: Use 1 lb. product/A. *Cutworms: Use 1 lb. product/A. By Ground: Ground application is recommended.	21
		one of the following: cypermethrin*	one of the following: Refer to the approved label(s) for use instructions.		21
		esfenvalerate*	Refer to approved label(s) for use instructions.		21
		cyfluthrin	Refer to the approved label(s) for use instructions.		21
		bifenthrin	Refer to the approved label(s) for use instructions.		21

FOLIAR By Ground: 10 to 25 gals. product/A spray. By Air: 3 to 5 gals. product/A spray (minimum 5 gals. product/A in AZ and CA). See aerial application instructions for Cutworms.	Aphids Bollworm Cabbage Looper Cotton Leaf Perforator Cutworms Fall Armyworm Fleahoppers Pink Bollworm (AZ & CA) Plantbugs Stinkbugs Sweetpotato/Silverleaf Whitefly Thrips (including Western Flower Thrips) Tobacco Budworm Whitefly	lambda-cyhalothrin (except CA)	Refer to the approved label(s) for use instructions.	Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant. By Air: 3 to 10 gals. product/A spray (minimum 5 gals. product/A in CA). Aerial applications are less effective, but may be used. Apply when eggs or insects first appear or damage is first noted.	21
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RESISTANCE MANAGEMENT

Cotton pest control programs, especially those for control of Silverleaf Whitefly populations, should employ a properly designed resistance management strategy. Such resistance management strategies include mixture or rotation of alternative classes of chemistry including organophosphates, carbamates, pyrethroids or insect growth regulators. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternative insecticides.

COTTON [Soluble Powder Hopper Box Use]

USE RESTRICTIONS

- Do not use treated seed for food or feed purposes or process for oil.
- Do not feed gin trash to livestock.
- Do not allow animals to graze on treated areas.
- Do not apply more than 5 1/3 lbs. Orthene 75 S Soluble Powder(4 lbs. a.i.)/A per year. This includes all foliar spray, in-furrow application and seed treatment uses.
- Orthene 75 S Soluble Powder cotton seed hopper box treatment is not permitted in Arizona, California and the Blacklands of Texas.

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS	DAYS TO HARVEST
Hopper Box	Black (Greasy) Cutworm Cotton Aphids Thrips (including Western Flower Thrips)	3/16 to 1/4 lb. (3 - 4 oz.)	<p>Add dry product to seed in the planter box to achieve an application rate of 3/16 to 1/4 lb. product/A.</p> <p>Even coverage of seed is required for acceptable insect control. Plants grown from improperly treated seed may not exhibit insect control. To obtain even coverage, fill planter box 1/2 full of seed, add 1/2 of required product and mix thoroughly. Add remainder of seed and product to the hopper box and thoroughly mix.</p> <p>Improved distribution of product on seed can be achieved by premixing both in a separate container and then transferring treated seed to hopper box.</p> <p>Use of product with air planters is not recommended since loss of product will occur.</p>	At-planting application

CRANBERRY

USE RESTRICTIONS

- Do not make more than one application Orthene 75 S Soluble Powder per year.
- Do not apply more than 1 1/3 lbs. Orthene 75 S Soluble Powder (1 lb. a.i.)/A per year.
- Do not apply from start of bloom until all berries set.

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS	DAYS TO HARVEST
FOLIAR By Ground or Sprinkler: Sufficient water to give thorough coverage. By Air: Minimum of 2 gals. product/A of spray	Cranberry Blossom Worm Cranberry Cutworm Gypsy Moth False Armyworm Fireworms Spanworms Sparganothis	1 1/3 lbs.	SPRINKLER IRRIGATION APPLICATION TO CRANBERRIES: This product may only be applied through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, travelers, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.	90

Chemigation: 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, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

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

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

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

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

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

Application of more than label-recommended quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness.

HEAD LETTUCE - Crisphead Type Only

USE RESTRICTIONS

- Do not apply more than 2 2/3 lbs. Orthene 75 S Soluble Powder (2 lbs. a.i.)/A per crop cycle.
- Do not apply more than 5 1/3 lbs. Orthene 75 S Soluble Powder (4 lbs a.i.)/A per year.
- Do not feed trimmings to livestock or allow animals to graze on treated areas.
- AZ & CA, (desert areas): Do not apply after first head begins to form in crops, which germinate from mid-September through November.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 2/3 lb. product/A and a minimum of 7 days for rates exceeding 2/3 lb. product/A.

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS	DAYS TO HARVEST
FOLIAR By Ground: 10 to 60 gals. product/A of spray broadcast By Air: Minimum of 5 gals. product/A of spray	Aster Leafhopper Green Peach Aphid	2/3 to 1 1/3 lbs.	See use restrictions	21 Spring, Summer and early Fall crops in all areas, Winter crops in Florida and Texas, late Fall crops in Arizona and Winter crops in Arizona and California.
	Armyworm (excluding Beet Armyworm) Cabbage Looper	1 1/3 lbs.		

MINT - Peppermint and Spearmint

USE RESTRICTIONS

- Do not apply more than 2 2/3 lbs. Orthene 75 S Soluble Powder (2 lbs. a.i.)/A per year.
- Do not graze treated areas.
- Do not feed spent mint hay to animals.
- For repeat application on Alfalfa Looper, Aphid and Cutworm, use a minimum spray interval of 3 days for application rates up to and including 2/3 lb. product/A and a minimum of 7 days for rates exceeding 2/3 lb. product/A.

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS	DAYS TO HARVEST
FOLIAR By Ground: 20 to 100 gals. product/A of spray By Air: 5 to 10 gals. product/A of spray	Alfalfa Looper Aphid Cutworm	1 1/3 lbs.	Apply when eggs or insects first appear.	14
FOLIAR By Ground: 40 to 100 gals. product/A of spray	Strawberry Root Weevil Adult Black Vine Weevil Adult	1 1/3 lbs.	Strawberry Root and Black Vine Weevil: For control, apply in water in a minimum of 40 gals. spray per acre by ground. Good spray coverage and canopy spray penetration is critical for control. Increase spray volume and pressure with tall or dense mint canopy. Apply after adult emergence is complete but prior to egg laying. Apply at dusk or during the night on a warm, still evening. Maximum number of applications per year is 2. The minimum application interval is 7 days.	14

NON-BEARING CITRUS

USE RESTRICTIONS

- Do not graze treated areas.
- DO NOT HARVEST citrus for one year after treatment.
- **CALIFORNIA USERS:** For mixer/loaders who will also apply Orthene 75 Soluble Powder with a high pressure sprayer, do not mix and apply more than 250 gallons per day.

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS
FOLIAR By Ground: 100 to 200 gals. product/A of spray	Aphids Grasshoppers Katydid Mealybug Orangedog Plantbug Thrips Whitefly (except Sweetpotato/Silverleaf)	2/3 lb.	For repeat applications use a minimum spray interval of 3 days.
	Citrus Blackfly* Citrus Root Weevil*	2/3 to 1 lb.	Apply when eggs or insects first appear. Use the higher listed rate when a heavy infestation is present. For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 2/3 lb. product/A, and a minimum of 7 days for rates exceeding 2/3 lb. product/A
	Ants (excluding Fire, Harvester, Carpenter and Pharaoh Ants)	1 lb.	For repeat applications use a minimum spray interval of 7 days.
Spray individual juvenile or non-bearing trees for coverage with total application not to exceed specified rate in lbs. per acre. Length of residual activity will depend upon spray coverage and the amount of moisture following application.			
SOIL MOUND TREATMENT DRENCH METHOD	Ants* (excluding Carpenter and Pharaoh Ants)	[Mix one 1/3 lb. water soluble packet in 26.7 gals. water.] <i>{text above changes with size of water soluble packet. See below}</i>	Apply 1 gal. of mix to each mound area by sprinkling the mound until it is wet and treat a 4 ft. diameter circle around the mound. For best results apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.

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

{To be printed on 1/3 lb. Size Water Soluble Packaging.}

[Mix one 1/3 lb. water soluble packet of product in 26.6 gals. of water]

{To be printed on 1 lb. Size Water Soluble Packaging.}

[Mix one 1 lb. water soluble packet of product in 80 gals. of water]

{To be printed on 2 lbs. Size Water Soluble Packaging.}

[Mix one 2 lb. water soluble packet of product in 160 gals. of water]

{To be printed on 2 ½ lbs. Size Water Soluble Packaging.}

[Mix one 2 ½ lbs. water soluble packet of product in 200 gals. of water]

{To be printed on 5 lbs. Size Water Soluble Packaging.}

[Mix one 5 lbs. water soluble packet of product in 400 gals. of water]

NON-CROP AREAS – Field Borders, Fencerows, Roadsides, Ditchbanks, Borrow Pits

USE RESTRICTIONS

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

APPLICATION METHOD	PEST CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS
FOLIAR By Ground: 10 to 20 gals. product/A of spray By Air: 1 to 5 gals. product/A of spray (minimum of 5 gals. product/A in CA)	Grasshopper	1/3 lb.	For early to mid-season application. Use the higher spray volumes when spraying dense foliage. An approved drift retardant may be added to aid in controlling drift and reducing evaporation of aerial sprays.

NON-CROP AREAS – Wasteland

USE RESTRICTIONS

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

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS
FOLIAR By Ground: 10 to 20 gals. product/A of spray. By Air: ½ gal. product/A of spray (minimum of 5 gals. product/A in CA).	Black Grass Bug Grasshopper Mormon Cricket	1/8 to 1/6 lb. (2 - 2.7 oz.)	Use the higher spray volumes when spraying dense foliage. An approved drift retardant may be added to aid in controlling drift and reducing evaporation of aerial sprays.

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 5 1/3 lbs. Orthene 75 S Soluble Powder (4.0 lbs. a.i.)/A per year.
- This includes the use of Orthene 75 S Soluble Powder on peanuts as a foliar spray in addition to the peanut planter box seed treatment use.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 2/3 lb. product/A and a minimum of 7 days for the rates exceeding 2/3 lb. product/A.

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS	DAYS TO HARVEST
FOLIAR By Ground: 10 to 50 gals. product/A of spray By Air: 5 to 10 gals. product/A of spray	Grasshopper	1/3 to 2/3 lb.	Apply when eggs or insects first appear.	14 (of digging)
	Thrips	1/2 to 1 lb. (8 – 16 oz.)	Product can be tank mixed with registered at-cracking and early post-emergence peanut herbicides, provided those products do not prohibit tank mixes, provided the most restrictive of label limitations and precautions are observed, and provided no label dosage rates are exceeded.	
	Corn Earworm Fall Armyworm Leafhopper Looper Velvetbean Caterpillar	1 to 1 1/3 lbs.	<p>To determine physical compatibility, pour the recommended proportions of each chemical with the same proportion of water as will be present in the chemical supply tank into a suitable container, mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is considered physically compatible. When mixing wettable powder or dry flowable formulations, add and disperse these first, then add liquid pesticides. Conduct another compatibility test at concentrations which will be present in the irrigation lines. If there is any separation, which cannot be remixed readily, AMVAC recommends that the combination not be used.</p> <p>Combinations should be kept agitated and should be applied immediately. Do not allow combinations to sit for prolonged periods in the chemical supply tank or irrigation lines.</p>	

PEANUTS

[Soluble Powder Hopper Box Use]

USE RESTRICTIONS

- Do not apply more than 5 1/3 lbs. ORTHENE 75 S Soluble Powder (4 lbs. a.i.)/A per year. This includes the use of ORTHENE 75 S Soluble Powder on peanuts as foliar sprays in addition to the peanut planter box seed treatment use.
- DO NOT apply more than 1/4 lb. per acre.
- Do not use treated seed for food or feed.

CROP	PESTS CONTROLLED	APPLICATION RATE PER 100 LBS OF SEED	APPLICATION INSTRUCTIONS
Planter Box Seed Treatment Application – Hopper Box	Thrips	1/4 lb.	<p>Apply product at a rate of 1/4 lb. per 100 lbs. of peanut seed in the planter box as a dry powder. Even coverage of seed is required for acceptable insect control.</p> <p>MIXING: The following procedure for application of product to peanut seed must be followed to ensure complete and adequate coverage:</p> <p>STEP 1: Fill planter box 1/3 full of seed. Apply 1/3 of total amount of product evenly over the surface of the peanuts.</p> <p>STEP 2: Fill planter box 2/3 full of seed. Apply 1/3 of total amount of product evenly over the surface of the peanuts.</p> <p>STEP 3: Fill planter box with remaining seed. Apply 1/3 of total required amount of product evenly over the surface of the peanuts.</p> <p>DO NOT attempt to mix product with the seed peanuts by stirring or other mechanical agitation. Such action will result in unacceptable damage to seed prior to planting.</p>

PEPPERS – Bell

USE RESTRICTIONS

- Do not apply more than 2 2/3 lbs. Orthene 75 S Soluble Powder (2 lbs. a.i.)/A per crop cycle.
- Do not apply more than 5 1/3 lbs. Orthene 75 S Soluble Powder (4 lbs. a.i.)/A per year.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 2/3 lb. product/A and a minimum of 7 days for rates exceeding 2/3 lb. product/A.

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS	DAYS TO HARVEST
FOLIAR By Ground: 25 to 150 gals./A of spray By Air: Minimum of 3 gals. product/A of spray (minimum of 5 gals. product/A in CA)	Grasshopper	1/3 to 2/3 lb.	Apply when eggs or insects first appear.	7
	Cabbage Looper Green Peach Aphid Tobacco Hornworm Brown Marmorated stinkbug (except CA)	2/3 to 1 1/3 lbs.		
	European Corn Borer	1 to 1 1/3 lbs.		

PEPPERS – Non-Bell

FOR USE ONLY IN STATES EAST OF THE MISSISSIPPI RIVER AND IN PUERTO RICO.

USE RESTRICTIONS

- Do not apply more than 1 1/3 lbs. Orthene 75 S Soluble Powder (1 lb. a.i.)/A per crop cycle.
- Do not apply more than 2 2/3 lbs. Orthene 75 S Soluble Powder (2 lbs. a.i.)/A per year.

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS	DAYS TO HARVEST
FOLIAR By Ground: 40 to 150 gals. product/A of spray	Aphids	2/3 lb.	For repeat application use a minimum spray interval of 3 days.	7

SOYBEAN

USE RESTRICTIONS

- Do not graze or cut vines for hay or forage.
- Do not apply more than 2 lbs. Orthene 75 S Soluble Powder (1 1/2 lbs. a.i.)/A per year.
- Do not apply Orthene 75 S Soluble Powder within 14 days of harvest.
- For rates up to 2/3 lb. product/A, at least 3 days must pass between applications of Orthene 75 S Soluble Powder.
- For rates between 2/3 lb. product/A and 1 1/3 lbs. product/A, at least 7 days must pass between applications of Orthene 75 S Soluble Powder.
- Do not exceed a maximum of 2 lbs. product/A (1 1/2 lbs. a.i./A) per year.
- 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.

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS	DAYS TO HARVEST
FOLIAR By Air: 5 to 10 gals. product/A of spray. By Ground: 10 to 50 gals. product/A of spray.	Grasshopper Thrips	1/3 to 2/3 lb.	Repeat treatment as necessary to maintain control	14
	Potato Leafhopper Stink Bugs	2/3 to 1 1/3 lbs.		
	Armyworms (except Beet) Bean Leaf Beetle Cabbage Looper Green Cloverworm Mexican Bean Beetle Soybean Aphid Threecornered Alfalfa Hopper Velvetbean Caterpillar Kudzu bug (<i>Megacopta</i> <i>cribraria</i>) (except CA)	1 to 1 1/3 lbs.		

TOBACCO (except CA)

USE RESTRICTIONS

- Do not apply more than 5 1/3 lbs. Orthene 75 S Soluble Powder (4 lbs. a.i.)/A per year. This includes the use of Orthene 72 S soluble Powder in transplant water, plant bed, soil, float bed (greenhouse) and foliar applications.
- Do not apply more than 1 lb. product per acre as a transplant-water application as some phytotoxicity may occur.

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS	DAYS TO HARVEST
FLOATBED FOLIAGE: Mix three 1/3 lb. water soluble packets in 130.5 gals. of water. PLANT BED FOLIAGE: Mix three 1/3 lb. water soluble packets in 43.5 gals. of water. TRANSPLANT Apply in a minimum of 100 gals. of transplant water per acre	Cutworm Flea Beetle Green Peach Aphid Tobacco Aphid	1 lb.	Apply 3 gals. of spray solution for every 1,000 sq. ft. of bed. Apply evenly to ensure thorough coverage. NOTE: Floatbed water should be disposed of in the transplanted field as transplanter water or foliar spray. For repeat applications use a minimum spray interval of 7 days.	Not applicable
	Cutworm Flea Beetle Green Peach Aphid Tobacco Aphid	1 lb.	Apply 1 gal. of spray solution for every 1,000 sq. ft. of bed. Apply evenly to ensure thorough coverage. For repeat applications use a minimum spray interval of 7 days.	Not applicable
	Cutworm Flea Beetle Green Peach Aphid Potato Tuberworm Tobacco Aphid Tobacco Thrips	1 lb.	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. Provides control for approximately 3 to 4 weeks after transplanting. For control late in the season, apply foliar sprays of product.	Not applicable
FOLIAR By Ground: 10 to 50 gals. product/A of spray. By Air: Minimum of 3 gals. product/A of spray.	Grasshopper	1/3 to 2/3 lb.	For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 2/3 lb. product/A and a minimum of 7 days for rates exceeding 2/3 lb. product/A	3
	Flea Beetle Green Peach Aphid Hornworm Tobacco Thrips	2/3 lb.		
	Stinkbugs Tobacco Aphid Vegetable Weevils	2/3 to 1 lb.		
	Budworm Cabbage Looper Cutworm Japanese Beetle	1 lb.		

USE RESTRICTIONS

- Treat a maximum of 13 mounds per acre.
- Do not treat more than once per year.

APPLICATION METHOD	PESTS CONTROLLED	APPLICATION RATE PER ACRE	APPLICATION INSTRUCTIONS	DAYS TO HARVEST
SOIL MOUND TREATMENT - DRENCH METHOD	Ants (excluding Carpenter and Pharaoh Ants)	[Mix one 1/3 lb. water soluble packet in 26.7 gals. water.] <i>{text above changes with size of water soluble packet. See below}</i>	Apply 1 gal. of mix to each mound area by sprinkling the mound until it is wet and treat a 4 foot diameter circle around the mound. Apply in the early morning or late afternoon, when ants are most active, for best results. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.	Not applicable

{To be printed on 1/3 lb. Size Water Soluble Packaging.}
[Mix 1/3 lb. in 26.6 gals. of water]

{To be printed on 1 lb. Size Water Soluble Packaging.}
[Mix 1 lb. in 80 gals. of water]

{To be printed on 2 lbs. Size Water Soluble Packaging.}
[Mix 1 lb. in 160 gals. of water]

{To be printed on 2 1/2 lbs. Size Water Soluble Packaging.}
[Mix 2 1/2 lbs. in 200 gals. of water]

{To be printed on 5 lbs. Size Water Soluble Packaging.}
[Mix 1 lb. in 400 gals. of water]

CONTAINER GROWN NURSERY STOCK

USE RESTRICTIONS

- This product must be applied as a foliar or soil spray after mixing it with a water volume specified on the label.
- **CALIFORNIA USERS:** For mixer/loaders who will also apply Orthene 75 S Soluble Powder, do not mix and apply more than 250 gallons per day.

PLANTS	PESTS CONTROLLED	AMOUNT OF PRODUCT PER 100 GALS.	TIME OF APPLICATION	APPLICATION INSTRUCTIONS
Container Grown Nursery Stock (including but not limited to: Arborvitae Azalea Camellia Rhododendron Roses Viburnum Yew)	Black Vine Weevil Strawberry Root Weevil	1 lb.	Application should be made by mid-September for greenhouse stock and by mid-October for outdoor stock. Consult your local county extension agent for information on the identification and control of root weevils on ornamentals.	Apply the specified amount of product per 100 gals. of solution so as to thoroughly drench the root system. Before treating large plantings, spray only a few plants and observe two weeks for phytotoxicity.
	Ants (excluding Fire, Harvester, Carpenter and Pharaoh Ants)	1 lb.	Apply as needed to control the pest.	

ORNAMENTAL TREES AND SHRUBS

USE RESTRICTIONS

- Do not exceed 1 1/3 lbs. of Orthene 75 S Soluble Powder per acre per application.
- For foliar applications, do not apply with a low pressure handwand.
- For foliar treatment repeat applications, use a minimum spray interval of 14 days (except flowering crabapples and Douglas Fir)
- For Douglas Fir (Christmas Trees) do not make more than 1 application per year.
- **CALIFORNIA USERS:** Application to Christmas trees by air is restricted to a maximum of 1,000 acres per day.
- For flowering crabapples do not apply more often than 3 times in a growing season at a 4 week interval.
- This product must be applied as a foliar or soil spray after mixing it with a water volume specified on the label.
- **CALIFORNIA USERS:** For mixer/loaders who will also apply Orthene 75 S Soluble Powder, do not mix and apply more than 250 gallons per day.

PLANTS	PESTS CONTROLLED	AMOUNT OF PRODUCT PER 100 GALS	TIME OF APPLICATION	APPLICATION INSTRUCTIONS
Trees and Shrubs (except Flowering Crabapple and Douglas Fir, see below).	Aphids Bagworms Birch Leafminer Tent Caterpillars* Lace Bugs Leafrollers	1/3 to 2/3 lb.	As the insects begin to appear.	Apply the specified amount of product in 100 gals. water with a hydraulic sprayer. The addition of a suitable sticker improves control of Gypsy Moth larvae.
	Gypsy Moth Larvae* Webworms	2/3 lb.	As the insects begin to appear.	*Mist blower application: Adjust rates to 1 1/3 lbs. per 100 gals. of water for Gypsy Moth control and 1 lb. per 100 gals. water for Tent Caterpillar control. AMVAC does not advise application to Huckleberry, Balm of Gilead, Cottonwood, Lombardy Poplar and Viburnum suspensum as it may result in phytotoxicity in these plants. Nursery crops: Before treating large plantings, spray only a few plants and observe 2 weeks for phytotoxicity.
	Scales (Crawlers)	2/3 lb.	As crawlers begin to appear. Repeat applications, at a 2 week or more interval, may be necessary where there is continuous crawler production.	
	Ponderosa Pine Needle Miner	2/3 lb.	Time of application is important. Consult your Farm Advisor or County Extension Agent.	
	Grasshoppers	2/3 lb.	As the grasshoppers begin to appear.	Apply the specified amount of product in 100 gals. of water with a hydraulic sprayer as a full coverage spray .
	California Oakworm Cankerworms (Spring and Fall)	1/3 to 2/3 lb.	As the insects begin to appear. Use the higher listed rate when the larger larvae are present.	Apply the specified amount of product in 100 gals. of water with a hydraulic sprayer.
	Nantucket Pine Tip Moth Larvae	1 lb.	Time of application is important. Consult your Farm Advisor or County Extension Agent. Repeat applications will be required for subsequent generations.	
	Root Weevil Adults	1 lb.	Apply when first feeding damage occurs. Repeat applications, at 4 week intervals until the first heavy frost, may be necessary for complete foliage protection.	Apply the specified amount of product in 100 gals. of water with a hydraulic sprayer as a full coverage spray.

PLANTS	PESTS CONTROLLED	AMOUNT OF PRODUCT PER 100 GALS.	TIME OF APPLICATION	APPLICATION INSTRUCTIONS
Trees and Shrubs (except Flowering Crabapple and Douglas Fir, see below).	Box Elder Bugs Sawflies Budworms Leafhoppers	1 lb.	As the insects begin to appear.	
	Japanese Beetle	1 1/3 lbs.	As the Japanese Beetles begin to appear. Repeat applications, at 2 week intervals, may be necessary.	
	Elm Leaf Beetle (larvae)	1 1/3 lbs.	As the larvae begin to appear. Product will not prevent Elm Leaf Beetle eggs from hatching.	
Douglas Fir (Christmas Trees)	Douglas Fir Needle Midge Douglas Fir Tussock Moth Larvae	2/3 lb. (2/3 lb. product/A)	Application should be made no more than 2 weeks prior to bud burst. For additional pest management information, consult your County Extension Service.	Apply the specified amount of product in not less than 5 gals. of spray per acre by air or in 100 gals. of spray per acre by ground.
Flowering Crabapples	Aphids Tent Caterpillars Leafrollers	1/3 lb.	As the insects begin to appear.	Apply the specified amount of product in 100 gals. of water with a hydraulic sprayer. Caution: Phytotoxicity has occurred on the following Crabapple varieties: Hopa, Ichonoski, Malusfloribunda, Pink Perfection, Red Wine and Snow Cloud.

GOLF COURSE TURFGRASS

USE RESTRICTIONS

- Do not allow livestock to graze treated areas.
- Do not feed treated grass to livestock.
- Do not apply to turfgrass by air.
- When application is for mole cricket and spittlebug control do not irrigate after application.
- When application is for greenbug or grasshopper control do not mow turfgrass for at least 24 hours after application.
- For Sod Webworm, Greenbug and Grasshopper control do not repeat at less than 1 week intervals.
- **CALIFORNIA USERS:** Apply by ground boom only.
- Do not apply more than 5 1/3 lbs. Orthene 75 S Soluble Powder (4.0 lbs. a.i.)/A per single application to golf courses.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 2/3 lb. product/A and a minimum of 7 days for rates exceeding 2/3 lb. product/A.

PLANT	PESTS CONTROLLED	APPLICATION RATE PER 1,000 SQ. FT.	TIME OF APPLICATION	APPLICATION INSTRUCTIONS
Golf Course Turfgrass	Cutworm Fall Armyworm Yellow Striped Armyworm Southern Armyworm	1/2 to 1 1/5 oz. (equivalent to 1 1/3 to 3 1/3 lbs. product/A)	As the insects appear. A repeat application at 2 week intervals may be necessary.	Apply the specified amount of product per 1,000 sq. ft. Use 1 to 5 gals. of water per 1,000 sq. ft. to obtain good coverage.
	Chinch Bugs	1 1/5 to 2 oz. (equivalent to 3 1/3 to 5 1/3 lbs. product/A)	Apply as needed for adult population knockdown (10 to 14 days).	Apply the specified amount of product per 1,000 sq. ft. Use 1 to 5 gals. of water per 1,000 sq. ft. to obtain good coverage.
	Sod Webworm	1/2 to 1 oz. (equivalent to 1 1/3 to 2 2/3 lbs. product/A)	As sod webworms begin to appear. Use the higher listed rate when quick knockdown is needed or with heavy infestations. Repeat application may be necessary.	
	Leafhopper	1 oz. (equivalent to 2 2/3 lbs. product/A)	As the leafhoppers begin to appear. A repeat application at 1 week intervals may be necessary.	
	Mole Crickets (except CA) Spittlebug (except CA)	1 to 2 oz. (equivalent to 2 2/3 to 5 1/3 lbs. product/A)	As mole crickets begin to appear. For knockdown of existing populations, more than one application may be required throughout the growing season. For heavy infestations, use the higher listed rate.	Apply the specified amount of product per 1,000 sq. ft. Use 1 to 5 gals. water per 1,000 sq. ft. to obtain good coverage. Apply during late afternoon or early evening hours and after an irrigation. The use of a lemon fragrance substance in the spray mix may act as a flushing agent and thus provide increased Mole Cricket contact with the Orthene 75 S Soluble Powder. The following lemon scented products have been shown to be effective flushing agents: Lemon Joy®, Lemon Palmolive® and Mighty Myrt Products® Manufacture - Base Pure Lemon Fragrance. The use rate for these lemon scented products is 2 tsps. per gal water for small total mix volumes or 6 fl. oz. per 50 gals. water for large total mix volumes.
	Greenbug (Schizaphis graminun) Grasshoppers	1/2 oz. (equivalent to 1 1/3 lbs. product/A)	Apply when insects or their damage first appears. Repeat as necessary.	Apply the specified amount of product. Use 1 to 5 gals. of water per 1,000 sq. ft. to obtain good coverage.
	Black Turfgrass Ataenius (except CA)	1 1/2 to 2 oz. (equivalent to 4 to 5 1/3 lbs. product/A)	Apply when insects or their damage first appear.	Apply the specified amount of product per 1,000 sq. ft. Use 1 to 5 gals. of water per 1000 sq. ft. Irrigate lightly after application (not more than 1/2 inch). Use the higher rate for severe infestations.

SOD FARM TURFGRASS

USE RESTRICTIONS

- Do not allow livestock to graze treated areas.
- Do not feed treated grass to livestock.
- Do not apply to turfgrass by air.
- Do not apply more than 4 lbs. Orthene 75 S Soluble Powder (3 lbs a.i.)/A per single application to sod farms.
- Allow at least 3 days between last application and harvesting of sod.
- **CALIFORNIA USERS:** Apply by ground boom only.
- For Sod webworm control do not repeat at less than 1 week intervals.

PLANT	PESTS CONTROLLED	APPLICATION RATE PER 1,000 SQ. FT.	TIME OF APPLICATION	APPLICATION INSTRUCTIONS
Sod Farm Turfgrass	Cutworm Fall Armyworm Grasshopper Greenbug Leafhopper Sod Webworm Southern Armyworm Yellow Striped Armyworm	1/2 to 1 1/3 oz. (equivalent to 1 1/3 to 3 1/3 lbs. product/A)	As the insects appear. A repeat application at 2 week intervals may be necessary.	Apply the specified amount of product per 1,000 sq. ft. Use 1 to 5 gals. of water per 1,000 sq. ft. to obtain good coverage.
	Chinch Bugs Mole Cricket (except CA) Spittlebug (except CA)	1 1/3 to 1 1/2 oz. (equivalent to 3 1/3 to 4 lbs. product/A)	Apply as needed for adult population knockdown (10 to 14 days).	Apply the specified amount of product per 1,000 sq. ft. Use 1 to 5 gals. of water per 1,000 sq. ft. to obtain good coverage.
	Sod Webworm	1/2 to 1 oz. (equivalent to 1 1/3 to 2 2/3 lbs. product/A)	As sod webworms begin to appear. Use the higher listed rate when quick knockdown is needed or with heavy infestations. Repeat application may be necessary.	

MOUND TREATMENT OF FIRE ANTS AND HARVESTER ANTS IN TURFGRASS

USE RESTRICTIONS

- Do not treat mound more than once per year.

PLANT	PESTS CONTROLLED	AMOUNT OF PRODUCT	TIME OF APPLICATION	APPLICATION INSTRUCTIONS
Turfgrass Residential, Recreational and Commercial Turf	Imported Fire Ants and Harvester Ants	Drench Method: Mix 1/3 lb. in 26.6 gals. water. Apply 1 gal. of mix to each mound area by sprinkling the mound until it is wet and treat a 4 ft. diameter circle around the mound.	For best results apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.	Apply the specified amount of product as directed. Grass in treated areas may be injured.

OUTDOOR AND PERIMETER SPRAY

USE RESTRICTIONS

- Do not apply with a low pressure handwand.
- Do not use on residential turfgrass.

LOCATION	PESTS CONTROLLED	AMOUNT OF PRODUCT	TIME OF APPLICATION	APPLICATION INSTRUCTIONS
Outdoor and Perimeter Area	Wasps	Mix 1/3 lb. in 3.3 gals. water	Treat early or late in the day, as wasp are generally less active during these times.	Apply as a spot treatment to the nest, nest entrance, and surrounding areas where the wasps alight.
	Ants (excluding Fire Ants, Harvester Ants, Carpenter Ants and Pharaoh Ants) Cockroaches Crickets Earwigs Pillbugs	Mix 1/3 lb. in 3.3 gals. water	As the insects appear.	Apply to a band of soil 6 to 10 ft. adjacent to the structure and to a height of 2 to 3 ft. on the foundation where pests may be active or may find entrance. Also apply as a residual spray or with a paint brush to surfaces of buildings, window frames, shutters, entryways, screens, eaves, patios, garages, carports, around garage areas and other areas where these pests congregate.

ORNAMENTAL PLANTS GROWN FOR CUT FLOWER PRODUCTION

USE RESTRICTIONS

- Do not apply more than 1 lb. Orthene 75 S Soluble Powder /A per 100 gals water.
- Do not exceed 1 lb. product/A for cut flowers.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 0.5 lb. product/A and 7 days for application rates greater than 0.5 lb. product/A.
- This product must be applied as a foliar or soil spray after mixing it with a water volume specified on the label.
- **CALIFORNIA USERS:** For mixer/loaders who will also apply Orthene 75 S Soluble Powder with a high pressure sprayer, do not mix and apply more than 250 gallons per day.

PLANTS	PESTS CONTROLLED	AMOUNT OF PRODUCT PER 100 GALS	TIME OF APPLICATION	APPLICATION INSTRUCTIONS
Plants including but not limited to: Chrysanthemums Daisies Gladioli Roses	Aphids Lygus Thrips	2/3 lb.	As insects begin to appear. Repeat applications may be necessary.	Apply the specified amount of product in 100 gals. of water with a hydraulic sprayer as a full coverage spray. Multiple applications may cause slight tip burn or marginal leaf necrosis on some varieties. Test on a few plants to determine varietal susceptibility.

**GREENHOUSE (Commercial only) AND OUTDOOR ORNAMENTAL PLANTS,
FLORAL CROPS, GROUND COVERS AND FOLIAGE PLANT CROPS
Plants Not Produced for Cut Flower Production**

USE RESTRICTIONS

- Not for residential greenhouse use.
- Do not apply more than 1 1/3 lbs. Orthene 75 S Soluble Powder /A per 100 gals. water.
- Do not apply with low pressure handwand.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 2/3lb. product /A and a minimum of 7 days for rates exceeding 2/3 lb. product /A.
- Do not apply more often than once every 28 days to Chrysanthemums.
- Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.
- This product must be applied as a foliar or soil spray after mixing it with a water volume specified on the label.
- **CALIFORNIA USERS:** For mixer/loaders who will also apply Orthene 75 S Soluble Powder with a high pressure sprayer, do not mix and apply more than 250 gallons per day.

PLANTS	INSECTS CONTROLLED	AMOUNT OF PRODUCT PER 100 GALS	TIME OF APPLICATION	APPLICATION INSTRUCTIONS
Chrysanthemums	Aphids Thrips	2/3 lb.	As aphids begin to appear. As thrips begin to appear or at the tight flower bud stage. Repeat applications may be necessary.	Apply the specified amount of product in 100 gals. of water with a hydraulic sprayer as a full coverage spray. Caution: Phytotoxicity has occurred on the following Chrysanthemum varieties: Albatross, Bonnie Jean, Dixie, Garland, Gem, Iceberg, Pride, Showoff, Statesman, Tally Ho, Westward Ho and Wild Honey. Before treating large Chrysanthemum plantings, spray only a few plants and observe 2 weeks for varietal phytotoxicity. Application to Chrysanthemums in flower may cause flower damage.

PLANTS	INSECTS CONTROLLED	AMOUNT OF PRODUCT PER 100 GALS.	TIME OF APPLICATION	APPLICATION INSTRUCTIONS
Floral Crops including but not limited to: Dahlias Daisies Easter Lily Gladioli <i>Gypsophila</i> Pachysandra Pansy Peony Sedum Statice Strawflower Yarrow Zinnia Foliage Plants including but not limited to: Anthuriums Cacti Orchids Poinsettia	Aphids	1/3 to 2/3 lb.	As aphids begin to appear.	Apply the specified amount of product in 100 gals. of water with a hydraulic sprayer as a full coverage spray. The addition of a wetting agent may be required on difficult to wet foliage Caution: Phytotoxicity has occurred on the following foliage plants: <i>Blechnum gibbum</i> , <i>Cissus antarctica</i> , <i>Ficus triangularis</i> , <i>Fittonia verschaaffelti</i> , <i>Maranta leuconeura kerchoviana</i> , <i>Pachystachya lutea</i> , <i>Plectranthus australis</i> , <i>Polypodium aureus</i> , <i>Polystichum</i> , <i>Pteris ensiformis</i> , <i>Tolmiea menziesii</i> . Before treating large plantings spray only a few plants and observe 2 weeks for varietal phytotoxicity. Application of product on Poinsettias after bract formation may result in phytotoxicity on certain varieties.
	Mealybugs Thrips Whiteflies Scales (Crawlers)	2/3 lb.	Mealybugs and Whitefly: As the insects begin to appear. A repeat application, at a 2 week interval, may be necessary for control of mealybugs and whiteflies. Scale: As crawlers begin to appear. Repeat applications, at a 2 week or more interval, may be necessary where there is continuous crawler production.	
	Sweet potato Whiteflies (except CA)	1/3 lb + fenpropathrin (0.2 lb. a.i.)	Apply when insects first appear. If a population is well established, make 1 application of the tank mix and follow 5 to 7 days later with fenpropathrin alone. See fenpropathrin label(s) for instructions.	
Roses	Aphids Leafrollers Thrips	2/3 to 1 lb.	As leafrollers begin to appear. Use the higher listed rate when the large larvae are present.	Apply the specified amount of product in 100 gals. water with a hydraulic sprayer as a full coverage spray. Application to roses in flower may result in flower damage.

NON-CROP AREAS [ANT MOUND TREATMENT]

USE RESTRICTIONS

- Do not treat mound more than once per year.

CROPS	PESTS CONTROLLED	AMOUNT OF PRODUCT	APPLICATION INSTRUCTIONS
Non-Crop Areas	Imported Fire Ants and Harvester Ants	Mound Treatment – Drench Method: Mix 1 oz. in 5 gals. of water. Apply 1 gal. of mix to each mound area by sprinkling the mound until it is wet and treat 4 ft. diameter circle around the mound.	For best results apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest. Grass in treated areas may be injured.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in a cool, dry place. Protect from excessive heat. Do not contaminate food or foodstuffs. Do not store or transport near feed or food.

PESTICIDE DISPOSAL: To avoid wastes, use all materials in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER HANDLING: Outer Bag [For Multiple packaging]: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available, or dispose of the empty outer bag in the trash as long as WSP is unbroken. Packet [For single packaging]: Offer for recycling, if available, or dispose of the empty packet in the trash as long as WSP is unbroken.

(CONTAINER HANDLING FOR HOPPER BOX AND ANT TREATMENT USES)

Completely empty canister into application equipment. Do not reuse container. Dispose of empty canister in a sanitary landfill, by incineration or by other procedures approved by state or local authorities.

For help with any spill, leak, fire or exposure involving this material, call day or night 1-888-462-6822.

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; and (b) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions. **THIS WARRANTY DOES NOT EXTEND TO THE USE OF THIS PRODUCT CONTRARY TO LABEL INSTRUCTIONS, OR UNDER CONDITIONS NOT REASONABLY FORESEEABLE.**

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3xEPAComments}

{Optional marketing statements:}
[Kills fire ants]

{Master Label Graphics:}

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