

ORTHENE® 97

Soluble Insecticide

Active Ingredient	By Weight
*Acephate.....	97.4 %
Inert Ingredients.....	2.6 %
Total.....	100.0 %
*O,S-Dimethyl acetylphosphoramidothioate	

U.S. Patent. No. 6,013,272

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.

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

For Product Use Information phone: AMVAC®.....1-888-462-6822

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.

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

EPA Reg. No. 5481-8978

Net Contents: _____ Pounds

EPA Est. No.



AMVAC Chemical Corporation
4695 MacArthur Court, Suite 1200
Newport Beach, CA 92660 U.S.A.



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Harmful if swallowed.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Mixers, Loaders, Applicators and Other Handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves and shoes plus socks.

In addition, all Mixers and Loaders and all 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.**

Engineering Controls: 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.

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

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/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 with soil 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 foraging the treatment area.

DIRECTIONS FOR USE

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

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

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.

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

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

USE RESTRICTIONS

- Not for indoor residential use.

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.

MIXING INSTRUCTIONS

Thoroughly clean all sprayer components prior to mixing. Add approximately 1/2 of the required amount of water to the spray tank and begin agitation. Add the required amount of ORTHENE 97 insecticide and mix thoroughly. Then add other tank mix partners or foliar feed additives and the remaining water. Maintain agitation during filling and spraying to ensure a uniform spray mixture.

For application equipment which has minimal agitation, such as tobacco transplant water equipment, proper attention to mixing the ORTHENE 97 product should be given. With tobacco transplant water applications, the ORTHENE 97 product should be premixed in water to form a slurry prior to putting the product into the transplant water applicator. If premixing is not done, then adequate time should be allowed for the product to dissolve in the transplant water prior to beginning application.

SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions, (e.g., wind directions, 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.

- All aerial, ground and air-assisted/airblast application equipment must be properly maintained and calibrated using water as carrier. Do not apply this product as an ultralow (ULV) spray, or in any carrier other than water, except as specified in the 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 wing span 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 the 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 the wind speed is 10 mph or less at the application site as measured by an anemometer. Use medium or coarser spray according to the ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles.
- 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.
- The applicator also must use all other measures necessary to control drift.

BEANS AND LIMA BEANS - Dry Forms, Succulent Forms (Except Green Beans, Which Includes String Beans, Snap Beans and Wax Beans) and Succulent Green Beans Grown Only for Seed.

USE RESTRICTIONS:

- Do not feed treated vines to livestock.
- Do not apply more than 2 1/8 lbs./A (2 lbs. ai) ORTHENE 97 per crop cycle.
- For repeat applications use a minimum spray interval of 3 days for application rates up to and including 1/2 lb. product/A and a minimum of 7 days for rates exceeding 1/2 lb. product/A.

RESTRICTIONS: Use on succulent green beans as a food crop is prohibited (includes 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.

TABLE 1. BEANS AND LIMA BEANS - Dry forms, succulent forms (except green beans, which includes string beans, snap beans and wax beans) and succulent green beans grown only for seed.

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 97 PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 20 to 100 gals./A of spray. By Air: Minimum of 2 gals./A of spray.	Fleahoppers Grasshopper	1/4 to 1/2 lb. (4 to 8 oz.)	Apply when eggs or insects first appear.	14 (dry beans)
	Aphid (excluding Black Bean Aphid) Bean Leaf Beetle Bean Leafroller Cabbage Looper Cutworm Green Cloverworm Leafhoppers Mexican Bean Beetle Plantbugs (Lygus) Soybean Looper Thrips Whitefly (except Sweetpotato or Silverleaf Whitefly)	1/2 to 1.0 lb. (8 to 16 oz.)	Use higher rates within the specified rate range for severe insect infestations.	1 (lima beans - succulent form)
	Armyworm (excluding Beet Armyworm) Corn Earworm European Corn Borer	3/4 to 1.0 lb. (12 to 16 Oz.)		

CELERY

USE RESTRICTIONS

- All celery must be trimmed (tops removed) before shipment for use.
- Do not use trimmed tops for food or feed.
- Do not apply more than 2 1/8 lbs./A (2 lbs. ai) ORTHENE 97 per crop cycle.
- For repeat applications use a minimum spray interval of 3 days for application rates up to and including 1/2 lb. product/A and a minimum of 7 days for rates exceeding 1/2 lb. product/A.

TABLE 2. CELERY

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 97 PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 50 to 100 gals./A of spray. By Air: Minimum of 5 gals./A of spray.	Green Peach Aphid	1/2 to 1.0 lb. (8 to 16 oz.)	Apply when eggs or insects first appear.	21
	Cabbage Looper Fall Armyworm	1.0 lb. (16 oz.)		

COLE CROPS – Brussels Sprouts and Cauliflower

USE RESTRICTIONS

- Do not apply more than 2 1/8 lbs. ORTHENE 97 (2 lbs. ai) /A per crop cycle.
- 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 1/2 lb. product/A and a minimum of 7 days for rates exceeding 1/2 lb. product/A.

TABLE 3. COLE CROPS - Brussels Sprouts and Cauliflower

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 97 PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 25 to 150 gals./A of spray. By Air: Minimum of 5 gals./A of spray.	Green Peach Aphid	1/2 to 1.0 lb. (8 to 16 oz.)	Use the high rate when heavy infestations of Aphid are present. Apply when eggs or insects first appear.	14
	Cabbage Looper Diamondback Moth Larvae Imported Cabbage Worm	1.0 lb. (16 oz.)	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 feed treated forage or gin trash to livestock.
- Do not allow animals to graze on treated areas.
- Do not apply more than 4 1/8 lbs. ORTHENE 97 (4 lbs. ai) /A per crop cycle. This includes the use of ORTHENE in commercial seed treatment, in furrow spray and foliar applications.
- For foliar treatment repeat applications, use a minimum spray interval of 7 days.
- For in-furrow treatments, make only one application per season.

For Aerial Application:

- Do not apply more than 1 lb./A ORTHENE 97 per application to cotton grown in AZ and CA.
- Do not apply more than 3/4 lb./A ORTHENE 97 per application to cotton grown in all other states except AZ and CA.

TABLE 4. COTTON

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 97 PER ACRE	REMARKS ¹	DAYS TO HARVEST
IN FURROW By Ground: 3 to 5 gals./A of spray.	Aphid (excluding Cotton Aphid in AZ & CA) Black (Greasy) Cutworm (except CA) Thrips (including Western Flower Thrips)	1/2 to 1.0 lb. (8 to 16 oz.) For the Blacklands of Texas use 1.0 lb./A ORTHENE 97.	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. ORTHENE 97 can be mixed with fungicides that are sprayed in furrow for disease control.	21

FOLIAR By Ground: 10 to 25 gals./A of spray. By Air: 3 to 10 gals./A of spray (minimum of 5 gals./A in AZ & CA). For Aerial Application <ul style="list-style-type: none"> Do not apply more than 1 lb./A ORTHENE 97 per application to cotton grown in AZ and CA. Do not apply more than 3/4 lb./A ORTHENE 97 per application to cotton grown in all other states except AZ and CA. 	Thrips (including Western Flower Thrips)	2.5 to 3.0 oz.	Apply when eggs or insects first appear.	21
	Plantbugs (Lygus)	1/4 to 1.0 lb. (4 to 16 oz.) 3/4 to 1.0 lb. (AZ & CA)	Apply when eggs or insects first appear. Use highest rate for Lygus adults that have migrated into cotton.	21
FOLIAR By Ground: 10 to 25 gals./A of spray. By Air: 3 to 10 gals./A of spray (minimum of 5 gals./A in AZ & CA). For Aerial Application <ul style="list-style-type: none"> Do not apply more than 1 lb./A ORTHENE 97 per application to cotton grown in AZ and CA. Do not apply more than 3/4 lb./A ORTHENE 97 per application to cotton grown in all other states except AZ and CA. 	Fleahopper	1/4 lb. (4 oz.)	Apply when eggs or insects first appear.	21
	Cotton Aphid (excluding AZ & CA)	1/2 to 1.0 lb. (8 to 16 oz.)	This insect may develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current control recommendations.	21
	Whitefly (excluding Sweetpotato Whitefly/Silverleaf Whitefly)	1/2 to 1.0 lb. (8 to 16 oz.)		21
	Armyworm (excluding Beet Armyworm) Cabbage Looper	1.0 lb. (16 oz.)	Apply when eggs first appear.	21
	Bollworm Tobacco Budworm Adults Larvae	1/2 to 1.0 lb. (8 to 16 oz.) (East of Rockies) 1.0 lb. (AZ & CA)	Early Season: Use 1/2 lb. product /A for light infestation. Mid and Late Season: Use 3/4 to 1.0 lbs./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.	21
	Eggs/DEADHATCH®	1/4 to 1/2 lb.	DEADHATCH: Control of emerging larvae by consumption of treated egg casings.	21
	Stinkbugs	3/4 lb. (12 oz.)	Apply when eggs first appear.	21
FOLIAR	Pink Bollworm (AZ & CA)	1.0 lb. (16 oz.)	Apply when insects first appear.	21

<p>By Ground: 10 to 25 gals./A of spray.</p> <p>By Air: 3 to 10 gals./A of spray (minimum of 5 gals./A in AZ & CA).</p> <p>For Aerial Application</p> <ul style="list-style-type: none"> Do not apply more than 1 lb./A ORTHENE 97 per application to cotton grown in AZ and CA. Do not apply more than 3/4 lb./A ORTHENE 97 per application to cotton grown in all other states except AZ and CA. 	Cutworm	3/4 lb. (12 oz.)	<p>Ground application is recommended.</p> <p>Aerial applications are less effective, but may be used.</p> <p>Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant.</p> <p>Apply when insects first appear or damage is first noted.</p>	21
---	---------	---------------------	---	----

¹ For foliar treatment repeat applications, use a minimum spray interval of 7 days

RESISTANCE MANAGEMENT

Cotton pest control programs 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

USE RESTRICTIONS:

- Do not feed treated forage or gin trash to livestock.
- Do not allow livestock to graze on treated areas.
- Do not apply more than 4 1/8 lbs. ORTHENE 97 (4 lbs. ai) /A per crop cycle. This includes the use of ORTHENE 97 in commercial seed treatment, in-furrow spray and foliar applications.
- For repeat applications, use a minimum spray interval 7 days.

For Aerial Application:

- Do not apply more than 1 lb./A ORTHENE 97 per application to cotton grown in AZ and CA.
- Do not apply more than 3/4 lb./A ORTHENE 97 per application to cotton grown in all other states except AZ and CA.

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. Observe all restrictions and precautions which appear on all product labels. The most restrictive labeling applies when using a tank mix.

TABLE 5. COTTON TANK MIXES

APPLICATION METHOD	PESTS CONTROLLED	ORTHENE 97 AND TANK MIX PARTNER	AMOUNT OF ORTHENE 97 + TANK MIX PARTNER PER ACRE	REMARKS ¹	DAYS TO HARVEST
FOLIAR By Ground: 10 to 25 gals./A spray. By Air: 3 to 10 gals./A of spray (minimum 5 gals./A in CA). For Aerial Application <ul style="list-style-type: none"> Do not apply more than 1 lb./A ORTHENE 97 per application to cotton grown in AZ and CA. Do not apply more than 3/4 lb./A ORTHENE 97 per application to cotton grown in all other states except AZ and CA. 	Sweetpotato Whitefly (Silverleaf Whitefly)	ORTHENE 97 + DANITOL® 2.4 EC	1/2 to 1 lb. (8 to 16 oz.) + 8 to 16 fl. oz.	Follow all applicable directions, restrictions and precautions on the EPA registered label for Danitol 2.4 EC Spray. Use a minimum application rate of 10 2/3 fl. oz./A Danitol (0.2 lb. ai./A) in CA and AZ.	21
FOLIAR By Ground: 10 to 25 gals./A spray. By Air: 3 to 10 gals./A of spray (minimum 5 gals./A in CA). For Aerial Application <ul style="list-style-type: none"> Do not apply more than 1 lb./A ORTHENE 97 per application to cotton grown in AZ and CA. Do not apply more than 3/4 lb./A ORTHENE 97 per application to cotton grown in all other states except AZ and CA. 	Armyworm (excluding Beet Armyworm) Bollworm Cabbage Looper Cotton Aphid Cutworm Fleahopper Grasshopper Pink Bollworm Plantbugs (Lygus, Mirids) Salt Marsh Caterpillar Thrips (Including Western Flower Thrips) Tobacco Budworm Whitefly (Excluding Sweetpotato/Silverleaf Whitefly)	ORTHENE 97 + LORSBAN® 4E	1/4 to 1.0 lb. (4 to 16 oz.) + 1 to 2 pts.	Follow all applicable directions, restrictions and precautions on the EPA registered label for LORSBAN 4 E. Cutworm: Use 3/4 lb./A of ORTHENE 97. By Ground: Ground application is recommended. 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: Aerial applications are less effective, but may be used. Apply when insects first appear or when damage is first noted.	21

¹For repeat applications, use a minimum spray interval of 7 days.

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 4 1/8 lbs. ORTHENE 97 (4 lbs. ai) /A per crop cycle. This includes the use of ORTHENE in commercial seed treatment, in furrow spray and foliar applications.
- For repeat applications, use a minimum spray interval of 7 days.

For Aerial Application:

- Do not apply more than 1 lb./A ORTHENE 97 per application to cotton grown in AZ and CA.
- Do not apply more than 3/4 lb./A ORTHENE 97 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.

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. Observe all restrictions and precautions, which appear on all product labels. The most restrictive labeling applies when using a tank mix.

TABLE 6. COTTON TANK MIXES WITH PYRETHROIDS

APPLICATION METHOD	PESTS CONTROLLED	ORTHENE 97 AND TANK MIX PARTNER	AMOUNT OF ORTHENE 97 + TANK MIX PARTNER PER ACRE	REMARKS ¹	DAYS TO HARVEST
FOLIAR By Ground: 10 to 25 gals./A spray. By Air: 3 to 5 gals./A spray (minimum 5 gals./A in CA). See aerial remarks for Cutworm. For Aerial Application <ul style="list-style-type: none"> • Do not apply more than 1 lb./A ORTHENE 97 per application to cotton grown in AZ and CA. • Do not apply more than 3/4 lb./A ORTHENE 97 per application to cotton grown in all other states except AZ and CA. 	Aphid Bollworm Cabbage Looper Cotton Leaf Perforator Cutworm Fall Armyworm Fleahoppers Pink Bollworm (AZ & CA) Plantbugs Stinkbugs Sweetpotato/ Silverleaf Whitefly Thrips (including Western Flower) Tobacco Budworm Whitefly	ORTHENE 97 + one of the following:	1/2 to 1.0 lb./A (8 to 16 oz.) + one of the following:	Apply when eggs or insects first appear. Stinkbugs: Use 3/4 lb./A of ORTHENE 97. *Cutworm: Use 3/4 lb./A of ORTHENE 97.	21
		AMMO® 2.5 EC*	Refer to the AMMO 2.5 EC approved label for use instructions.	By Ground: Ground application is recommended. 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./A spray (minimum 5 gals./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
FOLIAR By Ground: 10 to 25 gals./A spray.		ASANA® XL*	Refer to the ASANA XL approved label for use instructions.		21

APPLICATION METHOD	PESTS CONTROLLED	ORTHENE 97 AND TANK MIX PARTNER	AMOUNT OF ORTHENE 97 + TANK MIX PARTNER PER ACRE	REMARKS ¹	DAYS TO HARVEST
By Air: 3 to 5 gals./A spray (minimum 5 gals./A in CA). See aerial remarks for Cutworm. For Aerial Application <ul style="list-style-type: none"> Do not apply more than 1 lb./A ORTHENE 97 per application to cotton grown in AZ and CA. Do not apply more than 3/4 lb./A ORTHENE 97 per application to cotton grown in all other states except AZ and CA. 		BAYTHROID® 2 EC	Refer to the BAYTHROID 2 EC approved label for use instructions.		21
		CAPTURE® 2 EC	Refer to the CAPTURE 2 EC approved label for use instructions.		21
		KARATE® 1 E (except CA)	Refer to the KARATE 1 E approved label for use instructions.		21
		SCOUT X-TRA® (except CA)	Refer to the SCOUT X-TRA approved label for use instructions.		28

¹For repeat applications, use a minimum spray interval of 7 days.

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.

CRANBERRY

- Limit to one application per growing season.
- Do not apply more than 1.0 lb. ORTHENE 97 (1.0 lb. ai) per season.
- Do not apply from start of bloom until all berries set.

TABLE 7. CRANBERRY

APPLICATION METHOD	PESTS CONTROLLED	RATE OF ORTHENE 97 PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground or Sprinkler: Sufficient water to give thorough coverage. By Air: Minimum of 2 gals./A of spray.	Cranberry Blossom Worm Cranberry Cutworm Gypsy Moth False Armyworm Fireworm Spanworm Sparganothis	1.0 lb. (16 oz.)	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.	90
			If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.	
FOLIAR By Sprinkler: Sufficient water to give thorough coverage. By Air: Minimum of 2 gals./A of spray.	Cranberry Blossom Worm Cranberry Cutworm Gypsy Moth False Armyworm Fireworm Spanworm Sparganothis	1.0 lb. (16 oz.)	RESTRICTION: Use limited to MA, NJ, OR, WA and WI. 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.	75
			If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.	

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 1/8 lbs./A (2 lbs. ai) ORTHENE 97 per crop cycle.
- 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 1/2 lb. product/A and a minimum of 7 days for rates exceeding 1/2 lb./A.

TABLE 8. HEAD LETTUCE - Crisphead Type Only

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 97 PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 10 to 60 gals./A of spray broadcast. By Air: Minimum of 5 gals./A of spray.	Aster Leafhopper Green Peach Aphid	1/2 to 1.0 lb. (8 to 16 oz.)	Applications may be made in spring, summer and early fall in all areas; winter applications may be made in AZ, CA, FL and TX; and late fall applications may be made in AZ.	21
	Armyworm (excluding Beet Armyworm) Cabbage Looper	1.0 lb. (16 oz.)		

MINT - Peppermint and Spearmint

USE RESTRICTIONS

- Do not apply more than 2 1/8 lbs./A (2 lbs. ai) ORTHENE 97 per crop cycle.
- Do not graze treated areas.
- Do not feed spent mint hay to animals.

TABLE 9. MINT - Peppermint and Spearmint

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 97 PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 20 to 100 gals./A of spray. By Air: 5 to 10 gals./A of spray.	Alfalfa Looper Aphid Cutworm	1.0 lb. (16 oz.)	Apply when eggs or insects first appear. Maximum number of applications per year is 2. The minimum application interval is 7 days.	14
FOLIAR By Ground: 40 to 100 gals./A of spray.	Strawberry Root Weevil Adult Black Vine Weevil Adult	1.0 lb. (16 oz.)	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. Make one repeat application, at a minimum of a 7 day interval, if necessary to maintain control.	14

NON-BEARING CITRUS - In Agricultural Settings (Newly Planted Groves)

USE RESTRICTIONS

- Do not graze treated areas.
- DO NOT HARVEST citrus for one year (365 days) after treatment.

TABLE 10. NON-BEARING CITRUS

APPLICATION METHOD	PESTS CONTROLLED	RATE OF ORTHENE 97 PER ACRE	REMARKS
FOLIAR By Ground: 100 to 200 gals./A of spray.	Aphid Grasshopper Katydid Mealybug Orangedog Plantbug Thrips Whiteflies (except Sweetpotato/Silverleaf)	1/2 lb. (8 oz.)	For repeat applications, use a minimum spray interval of 7 days.
	Citrus Blackfly*	1/2 to 3/4 lb. (8 to 12 oz.)	Apply when eggs or insects first appear. Use the high rate when a heavy infestation is present. For repeat applications use a minimum spray interval of 7 days.
	Ants (excluding Fire, Harvester, Carpenter and Pharaoh Ants)	3/4 lb. (12 oz.)	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)*	3/4 oz./5 gals.	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. 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 Harvester Ants.

NON-CROP AREAS

Field Borders, Fencerows, Roadsides, Ditchbanks, Borrow Pits

USE RESTRICTIONS

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

TABLE 11. NON-CROP AREAS – Field Borders, Fencerows, Roadsides, Ditchbanks, Borrow Pits

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 97 PER ACRE	REMARKS
FOLIAR By Ground: 10 to 20 gals./A of spray. By Air: 1 to 5 gals./A of spray (minimum of 5 gals./A in CA).	Grasshopper	1/4 lb. (4 oz.)	For early to mid-season application. Use the higher 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 ORTHENE 97 per season.
- Do not graze or feed vegetation cut from treated areas.

TABLE 12. NON-CROP AREAS - Wasteland

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 97 PER ACRE	REMARKS
FOLIAR By Ground: 10 to 20 gals./A of spray. By Air: 1/2 gal./A of spray (minimum of 5 gals./A in CA).	Black Grass Bugs Grasshopper Mormon Crickets	1.5 oz. to 2 oz.	Use the higher 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 4 1/8 lbs./A (4 lbs. ai) ORTHENE 97 per crop cycle. This includes the use of ORTHENE 97 on peanuts as a foliar spray in addition to the peanut planterbox seed treatment use.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 1/2 lb. product/A and a minimum of 7 days for rates exceeding 1/2 lb. product/A.

TABLE 13. PEANUTS

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 97 PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 10 to 50 gals./A of spray. By Air: 5 to 10 gals./A of spray.	Grasshopper	1/4 to 1/2 lb. (4 to 8 oz.)	Apply when eggs or insects first appear. ORTHENE 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	14 (of digging)

Thrips	3/8 to 3/4 lb. (6 to 12 oz.)	precautions are observed, and provided no label dosage rates are exceeded.	
Corn Earworm Fall Armyworm Leafhoppers Loopers Velvetbean Caterpillar	3/4 to 1.0 lb. (12 to 16 oz.)	<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 5 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>	

PEPPERS – Bell

USE RESTRICTIONS

- Do not apply more than 2 1/8 lbs./A (2 lbs. ai) ORTHENE 97 per crop cycle.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 1/2 lb. product/A and a minimum of 7 days for rates exceeding 1/2 lb. product/A.

TABLE 14. PEPPERS - Bell

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 97 PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 25 to 150 gals./A of spray. By Air: Minimum of 3 gals./A of spray (minimum of 5 gals./A in CA).	Grasshopper	1/4 to 1/2 lb. (4 to 8 oz.)	Apply when eggs or insects first appear.	7
	Cabbage Looper	1/2 to 1.0 lb. (8 to 16 oz.)		
	Green Peach Aphid			
	Tobacco Hornworm			
	European Corn Borer	3/4 to 1.0 lb. (12 to 16 oz.)		

PEPPERS – Non-Bell

FOR USE IN MIDWESTERN, EASTERN STATES AND PUERTO RICO ONLY.

USE RESTRICTIONS

- Do not apply more than 1 lb./A (1 lb. ai) ORTHENE 97 per crop cycle.

TABLE 15. PEPPERS - Non-Bell

APPLICATION METHOD	PESTS CONTROLLED	RATE OF ORTHENE 97 PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Ground: 40 to 150 gals./A of spray.	Aphid	1/2 lb. (8 oz.)	For repeat application use a minimum spray interval of 3 days.	7

SOYBEANS

USE RESTRICTIONS

- Do not graze or cut vines for hay or forage.
- Do not apply more than 1.5 lbs./A (1.5 lbs. ai/A) of ORTHENE 97 per season.
- Do not apply ORTHENE 97 within 14 days of harvest.
- For rates up to 0.5 lb./A, at least 3 days must pass between applications of ORTHENE 97.
- For rates between 0.5 lb. product/A and 1.0 lb./A, at least 7 days must pass between applications of ORTHENE 97.
- 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.

TABLE 16. SOYBEANS

APPLICATION METHOD	PESTS CONTROLLED	RATES OF ORTHENE 97 PER ACRE	REMARKS	DAYS TO HARVEST
FOLIAR By Air: 5 to 10 gals./A of spray By Ground: 10 to 50 gals./A of spray	Grasshopper Thrips	0.25 to 0.5 lb.	Repeat treatment as necessary to maintain control, but do not exceed a maximum of 1.5 lbs./A (1.5 lbs. ai/A) per season.	14
	Potato Leafhopper Stink Bugs	0.5 to 1 lb.		
	Armyworms (except Beet) Bean Leaf Beetle Cabbage Looper Green Cloverworm Mexican Bean Beetle Soybean Aphid Threecornered Alfalfa Hopper Velvetbean Caterpillar	0.75 to 1 lb.		

TOBACCO (Except CA) - Transplant Water Application

USE RESTRICTIONS

- Do not apply more than 4 1/8 lbs./A (4 lbs. ai) ORTHENE 97 per crop cycle. This includes the use of ORTHENE 97 in transplant water, plant bed, soil, float bed (greenhouse) and foliar applications.

TABLE 17. TOBACCO (Except CA) - Transplant Water Application

CROP	PESTS CONTROLLED	AMOUNT ORTHENE 97 PER ACRE	FURTHER USE INSTRUCTIONS
Tobacco	Cutworm Flea Beetle Green Peach Aphid Potato Tuberworm Tobacco Aphid Tobacco Thrips	3/4 lb. (12 oz.)	<p>Provides control of early season flea beetles, green peach Aphid, Tobacco Aphid, and Cutworm for approximately 3 to 4 weeks after transplanting. For later season control of these insects, apply a foliar spray of ORTHENE 97.</p> <p>Apply in a minimum of 100 gals. of transplant water per acre. ORTHENE 97 should be pre-mixed in water to form a slurry solution prior to adding to the transplant water tank.</p> <p>Do not apply more than 3/4 lb. ORTHENE 97 per acre as a transplant water application as some phytotoxicity may occur.</p> <p>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.</p>

TOBACCO (Except CA) – Foliar Application

USE RESTRICTIONS

- For repeat applications use a minimum spray interval of 3 days for application rates up to and including 1/2 lb. product/A and a minimum of 7 days for rates exceeding 1/2 lb. product/A.
- Do not apply more than 4 1/8 lbs./A (4 lbs. ai) ORTHENE 97 per crop cycle. This includes the use of ORTHENE 97 in transplant water, plant bed, soil, float bed (greenhouse) and foliar applications.

TABLE 18. TOBACCO (Except CA) - Foliar Application

CROP	PESTS CONTROLLED	AMOUNT ORTHENE 97 PER ACRE	FURTHER USE INSTRUCTIONS	DAYS TO HARVEST
Tobacco (Flue-Cured, Air Cured, Dark Fire Cured)	Grasshopper	1/4 to 1/2 lb. (4 to 8 oz.)	Apply in 10 to 50 gals. of water per acre with ground equipment or a minimum of 3 gals. per acre by air.	3
	Flea Beetle Green Peach Aphid Hornworm Tobacco Thrips	1/2 lb. (8 oz.)		
	Stinkbugs Tobacco Aphid Vegetable Weevils	1/2 to 3/4 lb. (8 to 12 oz.)		
	Budworm Cabbage Looper Cutworm Japanese Beetle	3/4 lb. (12 oz.)		

TOBACCO (Except CA) – Plant Bed Application

USE RESTRICTIONS

- Do not apply more than 4 1/8 lbs./A (4 lbs. ai) ORTHENE 97 per crop cycle. This includes the use of ORTHENE 97 in transplant water, plant bed, soil, float bed (greenhouse) and foliar applications.

TABLE 19. TOBACCO (Except CA) - Plant Bed Application

CROP	PESTS CONTROLLED	AMOUNT ORTHENE 97 PER ACRE	FURTHER USE INSTRUCTIONS
Tobacco Bed Treatment	Cutworm Flea Beetle Green Peach Aphid Tobacco Aphid	3/4 lb. (12 oz.)	Apply to foliage at the equivalent of 3/4 Tbsp. in 1 gal. of water per every 1,000 sq. ft. of bed. Apply evenly to insure thorough coverage. For repeat applications use a minimum spray interval of 7 days.

TOBACCO (Except CA) – Greenhouse Application

USE RESTRICTIONS

- Do not apply more than 4 1/8 lbs./A (4 lbs. ai) ORTHENE 97 per crop cycle. This includes the use of ORTHENE 97 in transplant water, plant bed, soil, float bed (greenhouse) and foliar applications.

TABLE 20. TOBACCO (Except CA) Greenhouse Application

CROP	PESTS CONTROLLED	AMOUNT ORTHENE 97 PER ACRE	FURTHER USE INSTRUCTIONS
Tobacco	Cutworm Flea Beetle Green Peach Aphid Tobacco Aphid	3/4 lb. (12 oz.)	Apply to foliage at the equivalent of 3/4 Tbsp. in 3 gals. water per every 1,000 sq. ft. of bed. Apply evenly to ensure thorough coverage. For repeat applications use a minimum spray interval of 7 days. Note: Floatbed water should be disposed of in the transplanted field in either transplant water or foliar spray.

TOBACCO (Except CA) – Soil Application

USE RESTRICTIONS

- Do not apply more than 4 1/8 lbs./A (4 lbs. ai) ORTHENE 97 per crop cycle. This includes the use of ORTHENE 97 in transplant water, plant bed, soil, float bed (greenhouse) and foliar applications.
- Treat maximum of 13 mounds per acre.
- Do not treat more than once per season.

TABLE 21. TOBACCO (Except CA) - Soil Application

CROP	PESTS CONTROLLED	AMOUNT ORTHENE 97	FURTHER USE INSTRUCTIONS	DAYS TO HARVEST
Tobacco	Ants (excluding Carpenter, Fire, Harvester and Pharaoh)	Drench Method: Mix 3/4 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 a 4 foot 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.	3

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.

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

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 DISPOSAL

Nonrefillable container. Do not reuse or refill this container. Completely empty canister into application equipment. Do not reuse container. Dispose of empty canister in a sanitary landfill or by incineration, or offer for recycling, if available, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN TORT, 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. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW MANUFACTURER OR SELLER SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty which may be varied only by agreement in writing signed by an authorized representative of AMVAC.

© 2019 AMVAC Chemical Corporation is a wholly owned subsidiary of American Vanguard Corporation. All Rights Reserved. AMERICAN VANGUARD, AMVAC and their respective logos are trademarks owned by AMVAC Chemical Corporation.

Orthene is a trademark of OMS Investments, Inc.

CHEMTREC is a service mark of the American Chemistry Council, Inc.

Ammo and Capture are trademarks of FMC Corporation.

Baythroid and Scout X-Tra are trademarks of a Bayer company
Asana and Danitolare trademarks of Sumitomo Chemical Company Ltd.
Eggs/DeadHatch is a trademark of Valent U.S.A. Corporation
Karate is a trademark of Syngenta Ltd.
Lorsban is a trademark of Dow AgroSciences LLC.

AMVAC Chemical Corporation
4695 MacArthur Court, Suite 1200
Newport Beach, CA 92660 U.S.A.

SPECIMEN