

REQUIEM[®]

EC

**INSECTICIDE AND ACARICIDE FOR CONTROL OR SUPPRESSION
OF APHIDS, THRIPS, WHITEFLIES, PLANT-FEEDING MITES,
LEAFMINERS, AND LEAF HOPPERS IN AGRICULTURAL CROPS.
NOT FOR RESIDENTIAL USE**

Active Ingredient:

Terpene Constituents of the Extract of

Chenopodium ambrosioides near

ambrosioides as Synthetically Manufactured. 16.75%

Other Ingredients 83.25%

Total: 100.00%

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID

If In Eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for further treatment advice.

**If On Skin Or
Clothing**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for further treatment advice.

HOT LINE NUMBER

CHEMTREC (800) 424-9300 (24 hours)

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

See side/back panels for additional precautionary statements

EPA Reg. No.: 69592-25

Manufactured By:

AgraQuest, Inc.

1540 Drew Avenue, Davis, California 95618 Ph. (530) 750-0150

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear the appropriate Personal Protective Equipment (PPE).

PERSONAL PROTECTIVE EQUIPMENT

Applicators mixers, loaders and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride
- Shoes plus socks
- Protective eyewear
- Coveralls for high-pressure handwand and groundboom applicators.
- For overhead exposure wear chemical resistant headgear.
- For greenhouse uses, applicators and other handlers must wear a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE filter.

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

Engineering Controls: When handlers use enclosed cabs in a manner that meets requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing 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 product is toxic to aquatic invertebrates. 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 disposing of equipment washwater or rinsate.

Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not apply when weather conditions favor drift or runoff from treated areas. Do not apply when a rain event is expected within 2 hours. Groundboom and air-blast applications must maintain a spray buffer of 15 feet from any water body. See the Directions for Use for details.

DIRECTIONS FOR USE

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

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

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 State or Tribal 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, greenhouses and handlers of agricultural insecticides. 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 4 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:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride
- Shoes plus socks

SHAKE WELL BEFORE USE

GENERAL INFORMATION

REQUIEM® EC is a contact insecticide/acaricide for use in the control or suppression of many foliage feeding pests including aphids, thrips, plant-feeding mites, whiteflies, leafminers, and leaf hoppers infesting labeled crops. The emulsifiable concentrate of REQUIEM EC must be mixed with water and applied as a foliar spray with ground equipment equipped for conventional insecticide spraying.

MIXING AND APPLICATION INSTRUCTIONS

Do not apply this product by aerial application or through any type of irrigation system. REQUIEM EC is toxic to aquatic invertebrates. Users must maintain the following buffer zones: Groundboom and air-blast spray applicators must not apply within 15 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds). Groundboom and air-blast applicators must also account for wind direction and speed. Only apply this product if the wind direction favors on-target deposition. Do not apply when the wind velocity exceeds 10 mph. Do not apply when a rain event is expected within 2 hours.

Shake container well before use. REQUIEM EC must be diluted with water for spray applications. Partially fill the spray tank with clean water, add the specified amount of REQUIEM EC to the tank, and finish filling the tank to the proper volume to obtain the desired application rate per acre as specified in the crop and pest tables listed below. Use at dilutions no more concentrated than 2% v/v.

Compatibility: Do not combine REQUIEM EC in the spray tank with other pesticides, surfactants, adjuvants, or fertilizers if there has been no previous experience or use of the combination to show it is physically compatible, and non-injurious under your use conditions.

Do not use REQUIEM EC in tank mixes or in a program or in rotation with products containing captan (with REQUIEM EC either preceding or following captan applications) in any crop. Use of REQUIEM EC with captan-containing products may result in phytotoxicity.

Do not use REQUIEM EC in tank mixture combinations or in rotation with any product containing a label warning against using surfactants, methylated seed oils, oils or other adjuvants.

As with many Emulsifiable Concentrate (EC) formulations, certain combinations can exacerbate phytotoxicity problems. Products which are phytotoxic when used alone may be more phytotoxic when used with an EC formulation such as REQUIEM EC. AgraQuest has not tested all varieties and cultivars of all crops and potential tank-mix or rotational combinations.

To ensure crop safety, test REQUIEM EC in combination and in rotation with other products on a small portion of the crop. Wait at least 24-72 hours to evaluate results before applying to the entire field. If phytotoxicity is noted, and if it is determined that the level of phytotoxicity will result in economic losses to the crop, do not make the application to the crop.

To ensure physical compatibility of tank-mix combinations they must be evaluated prior to use. When products are physically compatible, a homogeneous solution is formed. To determine the physical compatibility of this product with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to approximately one quart of water with agitation. Add dry formulations first, then flowables, then emulsifiable concentrates last. After thorough mixing, allow this mixture to stand for 15 minutes. If the mixture in the test jar remains uniform for 15 minutes, the combination is compatible and can be used. If separation occurs (e.g. oils float to top, clumps of solids form, etc.), the combination is incompatible and do not use the mixture. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

Use of Adjuvants: The use of adjuvants with REQUIEM EC is not required.

Biological Control Agents: This product is compatible with the following biological control agents: *Encarsia formosa*, *Amblyseius fallacis*, *Phytoseiulus persimilis*, *Orius insidiosus*, *Aphidius colemani*, *Zetzellia mali*, *Neoseiulus fallacis*, *Typhlodromus pyri*, *Stethorus punctum*, lacewings, syrphid fly larvae, phytoseiid mite predators, aphid midges, lady beetles, and other predacious mites. Wait at least 2 hours after application before introducing new biological agents, or spray the evening before the day of introduction of new biological control agents.

AgraQuest is committed to the practice of sound resistance management programs that include rotation and tank mixing with other treatments having a variety of modes of actions.

APPLICATION

Use REQUIEM EC early in the pest cycle when local thresholds are reached or before insects reach damaging levels. **REQUIEM EC is a contact insecticide and thorough coverage is necessary for optimum control.** Use appropriate nozzles and nozzle configurations, along with sufficient spray volume to achieve thorough coverage. Rates of REQUIEM EC may need to increase with increased insect populations and/or large plant canopies. It is not necessary to use a surfactant with REQUIEM EC.

REQUIEM EC can be applied with commonly used ground equipment. Use of air-blast spray equipment may result in overhead exposure and requires the use of chemical-resistant headgear.

When using REQUIEM EC with a new crop, test on a small area before applying to the entire field. Do not apply REQUIEM EC more than **10 times** per crop production cycle.

PREHARVEST INTERVAL

REQUIEM EC can be applied up to and including the day of harvest. However, note that the restricted entry interval (REI) is 4 hours.

SPRAY DRIFT PRECAUTIONS

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower/treatment coordinator are responsible for considering all of these factors when making decisions. Where states have more stringent regulations, they should be observed. Note: This section is advisory in nature and does not supersede the mandatory label requirements.

All ground application equipment must be properly maintained and calibrated using appropriate carriers.

Make ground applications when the wind velocity favors on target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 10 mph. Avoid applications when wind gusts approach 10 mph.

Risk of exposure to sensitive areas can be reduced by avoiding applications when wind direction is toward the area.

Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperature.

Do not make ground applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

FOR USE ON THE FOLLOWING CROPS

(REQUIEM EC has a 0-Day PreHarvest Interval (PHI) for all crops contained on this label. However, note that the restricted entry interval (REI) is 4 hours.)

Brassica (Cole) Leafy Vegetables

Including Broccoli, Broccoli Raab, Brussels Sprouts, Cabbage, Chinese Cabbage (Bok Choy and Napa), Cauliflower, Cavalo, Collards, Kale, Kohlrabi, Mustard Greens, Rape Greens, and other Brassica leafy vegetable crops.

Pests and Application Rates:

Pests	REQUIEM EC (qts/acre)	Remarks
Aphids: • Green peach aphid • Turnip aphid	2-4	Begin treatments when thresholds have been reached.
Whiteflies: • Silverleaf whitefly		Apply before pests reach damaging levels. Repeat applications as needed to maintain control. Do not wait until heavy populations have become established. Use the high rate when conditions are favorable for heavy pressure.

Bulb Vegetables

Including Garlic, Leek, Onion (dry bulb, green, and Welch), and Shallot and other bulb vegetable crops.

Pests and Application Rates:

Pests	REQUIEM EC (qts/acre)	Remarks
Thrips: • Western flower thrips • Onion thrips	1.5-3	Begin applications as soon as thrips are seen in the crop. Continue applications as needed. Thrips will seek shelter in hard-to-reach parts of the plant. Use insecticide nozzles with sufficient water volume and spray pressure for thorough coverage.

Citrus Fruits

Including Grapefruit, Lemon, Lime, Orange, Tangerine, Citrus hybrids, Pummelo, and other citrus fruit crops.

Pests and Application Rates:

Pests	REQUIEM EC (qts/acre)	Remarks
Citrus Leafminer Mites: <ul style="list-style-type: none">• Six-spotted spider mite• Texas citrus mite• Citrus red mite• Two-spotted spider mite• Citrus rust mite	2-4	Treat when pests appear or in accordance with local economic thresholds. Repeat applications as needed to maintain control. The rate of REQUIEM EC will depend on tree size and pest pressure. Use a lower rate for light infestation and/or small trees and a higher rate for heavy infestations and/or large trees. When applying to large trees, use higher water volumes to ensure thorough coverage. Do not exceed 2% v/v solution.

Cucurbit Vegetables

Including Cucumber, Citron melon, Edible Gourds, Gherkin, Muskmelons (including hybrids and/or cultivars of Cucumis melo), Pumpkin, Summer and Winter Squash, Watermelon, Cantaloupe, and other cucurbit vegetable crops.

Use of REQUIEM EC in tank mixes with some products including, but not limited to, those containing strobilurins or chlorothalonil may result in phytotoxicity. Do not apply products containing chlorothalonil within 4 days after application of REQUIEM EC. Do not apply REQUIEM EC for 30 days following an application of chlorothalonil.

Pests and Application Rates:

Pests	REQUIEM EC (qts/acre)	Remarks
Aphids: <ul style="list-style-type: none">• Green peach aphid	2-3	Begin treatments when thresholds have been reached.
Thrips <ul style="list-style-type: none">• Melon thrips• Western flower thrips		Begin applications as soon as thrips are seen in the crop. Continue applications as needed. Thrips will seek shelter in hard-to-reach parts of the plant. Use appropriate nozzles with sufficient water volume and spray pressure for thorough coverage.
Whiteflies: <ul style="list-style-type: none">• Greenhouse whitefly• Sweetpotato whitefly• Silverleaf whitefly		Apply before pests reach damaging levels. Repeat applications as needed to maintain control. Do not wait until heavy populations have become established. Use the high rate when conditions are favorable for heavy pressure.

Grape

Do not use REQUIEM EC on grapes east of the Rockies. Use of REQUIEM EC on grapes after fruit set can diminish waxy bloom.

Pests and Application Rates:

Pests	REQUIEM EC (qts/acre)	Remarks
Leafhoppers: <ul style="list-style-type: none">• Grape leafhopper• Variegated leafhopper	2-4	For Suppression: Begin treatments before thresholds have been reached.
Mites: <ul style="list-style-type: none">• Pacific spider mite• Willamette spider mite• Two-spotted spider mite		Begin applications when thresholds have been reached. The rate of REQUIEM EC will depend on plant size and pest pressure. Use a lower rate for light infestation and/or small plant canopy and a higher rate for heavy infestations and/or large plants. Adjust equipment, spray pressure, and spray volumes to ensure thorough coverage of infested parts of the crop.

Fruiting Vegetables

Including Eggplant, Ground Cherry, Pepino, Pepper, Tomatillo, Tomato, and other fruiting vegetable crops.

Pests and Application Rates:

Pests	REQUIEM EC (qts/acre)	Remarks
Aphids: <ul style="list-style-type: none">• Green peach aphid• Potato aphid	2-3	Begin treatments when thresholds have been reached.
Thrips: <ul style="list-style-type: none">• Western flower thrips• Melon thrips• Chili thrips• Florida flower thrips• Eastern flower thrips	2-4	Begin applications as soon as thrips are seen in the crop. Continue applications as needed. Thrips will seek shelter in hard-to-reach parts of the plant. Use appropriate nozzles with sufficient water volume and spray pressure for thorough coverage.
Whiteflies: <ul style="list-style-type: none">• Silverleaf whitefly	2-3	Apply before pests reach damaging levels. Repeat applications as needed to maintain control. Do not wait until heavy populations have become established. Use the high rate when conditions are favorable for heavy pressure.
Leafminers (<i>Liriomyza</i> spp.)	3-4	For Suppression: Begin treatments before thresholds have been reached.

Leafy Vegetables

Including Lettuce, Arugula, Celery, Parsley, Radicchio, Florence Fennel, Romaine, Swiss Chard, and other leafy vegetable crops except Spinach.

Pests and Application Rates:

Pests	REQUIEM EC (qts/acre)	Remarks
Aphids: • Turnip aphid • Potato aphid • Green peach aphid	2-3	Begin treatments when thresholds have been reached.
Whiteflies: • Silverleaf whitefly	2-3	Apply before pests reach damaging levels. Repeat applications as needed to maintain control. Do not wait until heavy populations have become established. Use the high rate when conditions are favorable for heavy pressure.
Leafminers (<i>Liriomyza</i> spp.)	2-4	For Suppression: Begin treatments before thresholds have been reached.

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Pests and Application Rates:

Pests	REQUIEM EC (qts/acre)	Remarks
Thrips • Melon thrips • Western Flower thrips • Chili thrips • Florida Flower thrips	2-4	Begin applications as soon as thrips are seen in the crop. Continue applications as needed. Thrips will seek shelter in hard-to-reach parts of the plant. Use insecticide nozzles with sufficient water volume and spray pressure for thorough coverage.
Whiteflies		Apply before pests reach damaging levels. Repeat applications as needed to maintain control. Do not wait until heavy populations have become established. Use the high rate when conditions are favorable for heavy pressure.

* Not for use in California

Tree Nuts

Including Almond, Beech nut, Cashew, Chestnut, Filbert, Hickory nut, Pecan, Walnut, and other tree nut crops.

Do not use REQUIEM EC in tank mixes with chlorothalonil. Do not apply products containing chlorothalonil within 30 days after application of REQUIEM EC. Do not apply REQUIEM EC for 30 days following an application of chlorothalonil.

Pests and Application Rates:

Pests	REQUIEM EC (qts/acre)	Remarks
Aphids: <ul style="list-style-type: none">• Yellow aphid• Black pecan aphid• Black-margined aphid• Yellow pecan aphid Mites: <ul style="list-style-type: none">• European red mite• Pacific spider mite• Two-spotted spider mite• Strawberry spider mite	2-4	Begin applications when thresholds have been reached. The rate of REQUIEM EC will depend on plant size and pest pressure. Use a lower rate for light infestation and/or small plant canopy and a higher rate for heavy infestations and/or large plant canopy.

Root / Tuber and Corm Vegetables

Potato

Pests and Application Rates:

Pests	REQUIEM EC (qts/acre)	Remarks
Aphids: <ul style="list-style-type: none">• Green peach aphid Psylla: <ul style="list-style-type: none">• Potato psyllid *	2-3	Begin treatments when thresholds have been reached.

* Not for use in California

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool dry place. Avoid freezing.

Pesticide Disposal: To avoid wastes, use all material 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).

Do not contaminate water when disposing of equipment washwater or rinsate. Pesticide wastes may be toxic. Improper disposal of unused pesticide, washwater or rinse water is a violation of federal law.

Container Disposal: Non-refillable container. Do not reuse or refill this container.

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows:

Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances.

WARRANTY AND DISCLAIMER STATEMENT

AgraQuest warrants to those persons lawfully purchasing this product that at the time of the first sale of this product by Seller that this product conformed to its description and was reasonably fit for the purposes stated on the label when used in accordance with Seller's directions. Buyers and users of this product assume the risk of any use contrary to such directions. EXCEPT AS PROVIDED ELSEWHERE IN WRITING CONTAINING AN EXPRESS REFERENCE TO THIS WARRANTY AND LIMITATION OF DAMAGES, SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OR GUARANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO. Except to the extent prohibited by applicable law, AgraQuest offers this product with the following conditions: 1) buyers and users of this product assume the risk of any storage, handling or use contrary to AgraQuest's label and directions and 2) AgraQuest's liability shall in no case exceed the purchase price of the applicable AgraQuest product.

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