

66330-248

3/22/2010

57

1041

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



OFFICE OF  
PREVENTION, PESTICIDES,  
AND TOXIC SUBSTANCES

March 22, 2010

Bill Washburn  
Arysta Lifesciences North America LLC  
8000 Centerview Parkway, Suite 201  
Cordova, TN 38108

Dear Mr. Washburn:

Subject: Submission of amended labeling per Use Deletion Guidance 12/30/08 and revised  
May 2009 Malathion RED Label Table  
EPA Reg. No. 66330-248  
Submissions dated September 4, 2009

The proposed labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you submit two copies of your final printed label before you release the product for shipment. Products shipped after 18 months from the date of this amendment or the next printing of the label which ever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

Additional label corrections may be needed pending submittal and review of your responses to the Malathion RED.

A stamped copy is enclosed for your records. If you have any questions, please contact Marianne Lewis at (703) 308-8043 or [lewis.marianne@epa.gov](mailto:lewis.marianne@epa.gov).

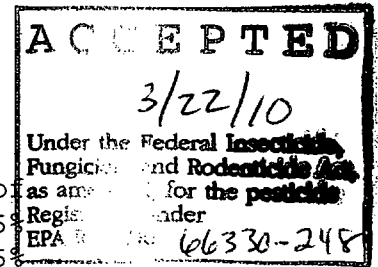
Regards,

Venus Eagle  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

Enclosure

2 of 4

**MALATHION 8EC  
ORGANOPHOSPHATE**



**ACTIVE INGREDIENT:**

Malathion (0,0-dimethyl phosphorodithioate of diethyl mercaptosuccinate) ..... 80.75%

**INERT INGREDIENTS:** ..... 19.25%

**TOTAL** ..... 100.00%

(1 gallon contains 8 pounds of Malathion)

**NET CONTENTS:** \_\_\_\_\_

**KEEP OUT OF REACH OF CHILDREN**

**WARNING**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

**FIRST AID**

**Organophosphate**

**IF SWALLOWED:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. 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 treatment advice.

**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 treatment advice.

**NOTE TO PHYSICIAN:**

May pose aspiration pneumonia hazard. Contains Petroleum Distillate. Treat symptomatically. Atropine is an antidote. This product is an organophosphorus ester that inhibits cholinesterase.

**HOTLINE NUMBERS**

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

FOR 24 HOUR EMERGENCY MEDICAL ASSISTANCE CALL: 1-866-303-6952

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300

3 of 4

EPA Reg. No.66330-248  
AD 022109

EPA Est. No. 51036-GA-1

**Manufactured For:**

ARYSTA LIFESCIENCE NORTH AMERICA, LLC  
15401 Weston Parkway, Suite 150  
Cary, NC 27513  
For product information call 866-761-9397

**PRECAUTIONARY STATEMENTS**

**Hazards To Humans And Domestic Animals**

**WARNING**

Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through the skin. Do not get in eyes or on clothing. Avoid contact with eyes, skin or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

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

For all formulations and all use patterns - mixers, loaders, applicators, flaggers, and other handlers must wear:

1. Long-sleeved shirt and long pants
2. Chemical-resistant gloves
3. Shoes plus socks
4. Protective eyewear

**USER SAFETY REQUIREMENTS**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**ENGINEERING CONTROLS**

Pilots must use an enclosed cockpit in a manner that is consistent with the WPS for Agricultural Pesticides [40 CFR 170.240 (d) (6)]. Pilots must wear the PPE required on this labeling for applicators.

40941

**USER SAFETY RECOMMENDATIONS**

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. 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 aquatic organisms, including fish and invertebrates. This product may contaminate water through drift of spray in wind. This product has a high potential for runoff after application. Use care when applying in or to an area which is adjacent to any body of water, and do not apply when weather conditions favor drift from target area. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. 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. This pesticide is 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.

Before using read the directions contained on this label for the proper methods and procedures which must be followed to achieve effective insect control.

**DIRECTIONS FOR USE**

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

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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.

**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 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 and restricted-entry intervals. 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). The REI for each crop is listed in the directions for use associated with each crop.

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:

1. Coveralls
2. Chemical-resistant gloves, (barrier laminate, butyl rubber, nitrile rubber or viton, selection category F)
3. Shoes plus socks
4. Protective eyewear

**BUFFER ZONES FOR AERIAL APPLICATION**

When making a Non-ULV application with aerial application equipment, a minimum buffer zone of 25 feet must be maintained along any water body.

When making a ULV application with aerial application equipment, a minimum buffer zone of 50 feet must be maintained along any water body.

**SPRAY DRIFT REQUIREMENTS:**

Observe the following requirements when spraying in the vicinity of aquatic areas such as, but not limited to lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries and commercial fish ponds.

**Droplet size**

Use the largest droplet size consistent with acceptable efficacy.

60041

Formation of very small droplets may 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.

For groundboom and aerial applications, use only medium or coarser spray nozzles according to ASAE (S572) definition for standard nozzles, or a volume mean diameter (VMD) of 300 microns or greater for spinning atomizer nozzles. In condition of low humidity and high temperatures, applicators should use a coarser droplet size.

**Wind Direction and Speed**

Make aerial or ground applications when the wind velocity favors on target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph. For all non-aerial applications, wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

**Temperature Inversion**

Do not make aerial or ground applications into areas of temperature inversions.

Inversions are characterized by stable air and increasing temperatures with increasing distance above the ground. Mist or fog may indicate the presence of an inversion in humid areas. Where permissible by local regulations, the applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

**Additional Requirements for Ground Applications**

Spray should be released at the lowest height consistent with pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided. For groundboom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

**Additional Requirements for Aerial Applications**

For aerial applications, the spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or 90% rotor diameter.

Aerial applicators must consider flight speed and nozzle orientation in determining droplet size.

70941

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. **PESTICIDE STORAGE:** Malathion 8EC should be stored in the original unopened container in a secure, dry place. Do not contaminate with other pesticides or fertilizers. The product should never be heated above 55°C (131° F), and should not be stored for long periods of time at a temperature in excess of 25°C (77°F). **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). **CONTAINER DISPOSAL:** Nonrefillable 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. Offer for recycling if available, or puncture and dispose of in a sanitary landfill.

#### PRECAUTIONS AND RESTRICTIONS

All ULV aerial formulations other than those intended for use as a Wide Area Mosquito Adulticide, must be packaged in closed mixing and loading systems.

Undiluted spray droplets of Malathion 8EC will permanently damage automobile paint. If accidental exposure does occur, the vehicle should be washed immediately. Apply Malathion 8EC uniformly at the volumes and dosage rates specified.

This product is to be used with water (or oil for ultra low volume aerial application to cotton and for aerial or turbine-blower application to pasture/rangeland). See cotton and pasture/rangeland use directions for specific recommendations for these application sites. Do not apply an ultra low volume application to any use sites other than cotton and pasture/rangeland. Do not use in undiluted form. Before using, mix the recommended amount of Malathion 8EC with an equal amount

80941

of water and add this mixture to the spray tank. Maintain agitation while mixing and applying. For aerial application to vegetable and field crops, apply 1-3 gallons of spray mixture per acre except where otherwise noted in specific crop directions. May be applied by chemigation to all listed crops (see "General Chemigation Instructions" below). Apply at first sign of an insect infestation and repeat as specified in the use directions. Best results are obtained with thorough coverage of all exposed plant surfaces. Consult your State Agricultural Extension Service or Experiment Station for additional information as to proper timing of application.

#### MIXING DIRECTIONS

Pour specified amount of product into nearly filled spray tank. Add balance of water to fill the tank. Keep agitator running during filling and spraying operations. If mixture does not mix readily, but tends to separate as an oily layer, do not use as injury to plants may result.

Do not combine with wettable powders unless previous use of the mixture has proven physically compatible and safe to the plants. Always thoroughly emulsify this product with at least half of the total water before adding wettable powders.

#### CHEMIGATION INSTRUCTIONS

Apply this product only through one or more of the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation system(s). Do not apply this product through any other type of irrigation system.

Crop injury or lack of effectiveness or illegal pesticide residues in the crop can 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. Do not connect an irrigation system used for pesticide application to a public water system unless the pesticide 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.

A. Center Pivot, Traveler, Big Gun, Motorized Lateral Move, End Tow, and Side (Wheel) Roll Irrigation Equipment: Operate system



9 of 41

and injection equipment at normal pressures specified by the manufacturer of injection equipment used. Fill tank or injection equipment with water. Operate system for one complete circle for center pivot or one complete run for the other recommended equipment, measuring time required, amount of water injected, and acreage contained in circle or run. Mix specified amount of product for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run, but continue to operate irrigation system until the product has been cleared from last sprinkler head. Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.

B. Solid Set and Hand Move Irrigation Equipment: Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a thirty to forty-five minute period. Mix desired amount of product for acreage to be covered into quantity of water used during calibration and operate entire system at normal pressures specified by the manufacturer of injection equipment used for amount of time established during calibration. Provide constant mechanical agitation in the mix tank to insure that the product will remain in suspension during the injection cycle. This product can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until pesticide is cleared from last sprinkler head.

#### SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

1. Public water systems means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of

100741

- fluid back toward the injection.
4. The pesticide injection pipeline must 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.
  5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or, in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
  6. 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.
  7. Do not apply when wind speed favors drift beyond the area intended for treatment.

**PHYTOTOXICITY ADVISORY STATEMENT**

As is common with most emulsifiable concentrate formulations adverse affects, such as spotting or discoloration of the fruit or foliage, can occur. Some conditions known to contribute to phytotoxicity include but are not limited to: high temperatures, poor spray drying conditions, excessive spray runoff, certain spray mixtures, stage of crop development or tank mixes with other pesticides

**PREHARVEST INTERVAL**

Minimum days between last application and harvest are given in ( ) after each crop name.

110241

TREES AND VINES

CROP	REI HRS	RATE oz. - pts per Acre	PESTS	COMMENTS
APRICOTS (6)	12	1 pt - 1 pt 8 oz  For aerial application, apply in 10-25 gallons of water per acre.  For ground application, apply in 300-800 gallons of water per acre.	Aphid, Codling moth, European Lecanium scale, Orange tortrix, Soft brown scale, Terrapin scale	The maximum application rate is 1.5 lbs/ai per acre/1 pt 8 oz of formulation; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days
AVOCADOS (7)	48	4 pts 11 oz  For aerial application, apply in 10-25 gallons of water per acre.  For ground application, apply in 300-800 gallons of water per acre.	Green house thrips, Latania scale, Omnivorous looper, soft brown scale, Orange tortrix	The maximum application rate is 4.7 lbs/ai per acre/4 pints 11 oz of formulation; the maximum number of applications per year is 2; and the minimum retreatment interval is 30 days.
BLACKBERRIES (1) BOYSENBERRIES (1) DEWBERRIES (1) LOGANBERRIES (1) RASPBERRIES (1)	12	1-2 pts           2 pts	Japanese beetle, Leafhopper Mite, Thrips    Aphid, Rose scale	The maximum application rate is 2.0 lbs/ai per acre/2 pts of formulation; the maximum number of applications per year is 3;and

12 of 41

		<p>For aerial application, apply in 10-25 gallons of water per acre.</p> <p>For ground application, apply in 300-800 gallons of water per acre.</p>		<p>the minimum retreatment interval is 7 days.</p>
BLUEBERRIES (1)	12	<p>1 pt -1 pt 4 oz</p> <p>For aerial application, apply in 10-25 gallons of water per acre.</p> <p>For ground application, apply in 300-800 gallons of water per acre.</p>	<p>Aphids, Blueberry maggot, Blueberry tip borer, Cherry fruitworm, Cranberry fruitworm, Japanese beetle, Plum curculio, Leafrollers, Sharp-nosed leafhopper, White tussock moth</p>	<p>The maximum application rate is 1.25 lbs/ai per acre/1 pt 4 oz of formulation; the maximum number of applications per year is 3; and the minimum retreatment interval is 5 days.</p>
CHERRIES (3)	12	<p>1 pt 12 oz.</p> <p>For aerial application, apply in 10-25 gallons of water per acre.</p> <p>For ground application, apply in 300-800 gallons of water per acre.</p>	<p>Black cherry aphid, Bud moth, Cherry fruit fly, Fruittree leafroller, Lesser peach twig borer, Forbes and San Jose scale</p>	<p>For lesser peach twig borer, apply to trunk and scaffold limbs at 21 day intervals beginning with emergence for up to 4 applications. May cause injury on certain varieties of sweet cherries in the Northeast</p> <p>The maximum application rate is 1.75 lbs/ai per acre/1 pt 12 oz of formulation; the</p>

130441

				maximum number of applications per year is 4 and the minimum retreatment interval is 3 days.
--	--	--	--	--

140641

<p>CITRUS          (GRAPEFRUIT (7),          LEMONS (7),          LIMES (7),          ORANGES (7),          TANGELOS (7),          TANGERINES (7) -          mandarin          oranges,          tangors, and          other hybrids          of tangerines          with other          citrus (7)</p>	<p>SEE          COMMENTS          SECTION</p>	<p>SEE          COMMENTS          SECTION</p> <p>For ground          application          , apply in          500-3000          gallons of          water per          acre.</p>	<p>Aphids, Black          scale (single          and off-          brooded),          California          red scale,          citricola          scale, Orange          worm, purple          scale, soft          scale,          thrips,          Yellow scale          Mediterranean          fruit fly</p>	<p>Do not apply when          trees are in bloom  <b>IN CA-</b> The          restricted entry          interval is 72 hrs.          The maximum          application rate is          EITHER 7.5 pounds          active ingredient          per acre/7 pints 8          oz. of formulated          product; the maximum          number of          applications per          year is 1;          *OR the Restricted-          Entry Interval is 12          hours. The maximum          application rate is          1.5 pounds active          ingredient per          acre/1 pint 8 oz of          formulated product          The maximum number          of applications per          year is 3, and the          minimum retreatment          interval is 30 days.  <b>ALL OTHER STATES-</b>          The restricted entry          interval is 72 hrs.          The maximum          application rate is          EITHER 4.5 pounds          active ingredient          per acre/4 pints 8          oz of formulated          product; maximum          number of          applications per          year is 1;          *OR Restricted-Entry          Interval is 12          hours. The maximum          application rate is          1.5 pounds active          ingredient per          acre/1 pint 8 oz of          formulated product;          and the maximum          number of          applications per          year is 3, and the          minimum retreatment          interval is 30 days.</p>
---	---	--	--	---

15041

CURRANTS (1)	12	<p>1 pt - 1 pt 4 oz.</p> <p>For aerial application , apply in 10-25 gallons of water per acre.</p> <p>For ground application , apply in 300-800 gallons of water per acre.</p>	<p>Japanese beetle, Mites</p> <p>Currant Aphid, Imported currantworm</p>	<p>The maximum application rate is 1.25 lbs ai/per acre/1 pint 4 oz of formulation; the maximum number of applications per year is 3; the minimum retreatment interval is 7 days.</p>
FIGS (5)	SEE COMMENTS SECITON	<p>SEE COMMENTS SECTION</p> <p>For aerial application , apply in 10-25 gallons of water per acre.</p> <p>For ground application , apply in 300-800 gallons of water per acre.</p>	<p>Dried Fruit beetles, Vinegar flies</p>	<p>The REI is 24 hours. The maximum application rate is 2.0 lbs/ai per acre/2 pints of formulation. The maximum number of applications is 2; and the minimum retreatment interval is 5 days.</p> <p><b>*OR</b></p> <p>The REI is 12 hours. The maximum application rate is 1.5 lbs/ai per acre/1 pint 8 oz of formulation. The maximum number of applications is 2; and the minimum retreatment interval is 5</p>

				days.
GRAPES (3)	72 hrs for girdling and tying 24 hrs for all other activities	1 pt - 1 pt 14 oz.  For aerial application, apply in 10-25 gallons of water per acre.  For ground application, apply in 100-200 gallons of water per acre.	Drosophilia, European fruit lecanium, grape leafhopper, Japanese beetle, Leafhopper, Mealybug, Spider mites, terrapin scale	Injury may occur to grape berries when applications are made after bloom.  The maximum application rate is 1.88 lbs ai/per acre/1 pint 14 oz of formulation; the maximum number of applications per year is 2; and the minimum retreatment interval is 14 days.
GOOSEBERRIES (3)	12	2 pts  For aerial application, apply in 10-25 gallons of water per acre.  For ground application, apply in 300-800 gallons of water per acre.	Japanese beetle, Mites  Currant Aphid, Imported currantworm	The maximum application rate is 2.0 lbs ai/per acre/2 pints of formulation; the maximum number of applications per year is 3; and the minimum retreatment interval is 7 days.
GUAVA (2),	12	12 oz - 1 pt. 4 oz.  For aerial application, apply in 10-25 gallons of water per acre.  For ground	Fruit flies	Apply with 1 pound partially hydrolyzed yeast protein or enzymatic yeast hydrolzate.  Maximum application rate is 1.25 lbs ai/per acre/1



		application , apply in 300-800 gallons of water per acre.		pint 4 oz of formulation; maximum number of applications per year is 13, and the minimum retreatment interval is 3 days.
KUMQUAT (7)	48	4 pts 8 oz  For aerial application , apply in 10-25 gallons of water per acre.  For ground application , apply in 300-800 gallons of water per acre.	Aphids, Black scale (single and off-brooded), California red scale, citricola scale, Orange worm, purple scale, soft scale, thrips, Yellow scale  Mediterranean fruit fly	Do not apply when trees are in bloom  The maximum application rate is 4.5 lbs/ai per acre/4 pints 8 oz of formulation; the maximum number of applications per year is 1; and the minimum retreatment interval is 30 days.
MACADAMIA NUTS (1)	12	1 ½ oz  For aerial application , apply in 10-25 gallons of water per acre.  For ground application , apply in 300-800 gallons of water per acre.	Green stink bug	The maximum application rate is 0.94 lbs/ai per acre/1 ½ ounce of formulation; the maximum number of applications per year is 6; and the minimum retreatment interval is 7 days.
MANGO (1)	12	1 ½ oz.  For aerial application	Fruit flies	Apply with 1 pound partially hydrolyzed yeast protein or enzymatic yeast

		<p>, apply in 10-25 gallons of water per acre.</p> <p>For ground application , apply in 300-800 gallons of water per acre.</p>		<p>hydrolzate.</p> <p>The maximum application rate is 0.94 lbs/ai per acre/1 ½ oz of formulation; the maximum number of applications per year is 3. The minimum retreatment interval is 7 days.</p>
NECTARINES (7)	24	<p>2 pts 8 oz -</p> <p>3 pts</p>	<p>Black cherry aphid, Black peach aphid, Green peach aphid, Japanese beetle, Rusty plum aphid</p>	<p>May be mixed with spray oil for dormant and delayed dormant applications. Follow spray oil manufacturer's directions.</p>
PEACHES (7)	24	<p>3 pts</p> <p>For aerial application , apply in 10-25 gallons of water per acre.</p> <p>For ground application , apply in 300-800 gallons of water per acre.</p>	<p>Cottony peach scale, lesser peach tree borer, Plum curculio, oriental fruit moth, San jose scale, terrapin scale</p>	<p>The maximum application rate is 3.0 lbs.ai per acre/3 pints of formulation; The maximum number of applications is 3. The minimum retreatment interval is 7 days for nectarines and 11 days for peaches.</p>
PASSION FRUIT (3)	12	<p>1 pt</p> <p>For aerial application , apply in 10-25 gallons of water per</p>	<p>Fruit flies</p>	<p>Apply with 1 pound partially hydrolyzed yeast protein or enzymatic yeast hydrolzate.</p> <p>The maximum</p>

		acre. For ground application, apply in 300-800 gallons of water per acre.		application rate is 1.0 lbs/ai per acre; 1 pint of formulation; the maximum number of applications per year is 8; and the minimum retreatment interval is 7 days.
PECANS (7)	24	2 pts 8 oz  For aerial application, apply in 10-25 gallons of water per acre.  For ground application, apply in 300-800 gallons of water per acre.	Aphids, Mites, Pecan bud moth, Pecan leaf casebearer, Pecan phylloxera	The maximum application rate is 2.5 lbs/ai per acre/2 pints 8 oz of formulation; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.
WALNUTS (7)	24	2 pts 8 oz  For aerial application, apply in 10-25 gallons of water per acre.  For ground application, apply in 300-800 gallons of water per acre.	Aphids, Mites, Walnut husk fly	The maximum application rate is 2.5 lbs/ai per acre/2 pints 8 oz of formulation; the maximum number of applications per year is 3; and the minimum retreatment interval is 7 days.

FIELD AND ROW CROPS

CROP	REI HRS	RATE oz/pts per Acre	PESTS	COMMENTS
ALFALFA (0),	12	<p>1 pt 4 oz</p> <p>For aerial application, apply in 2-20 gallons of water per acre.</p> <p>For ground application, apply in 5-125 gallons of water per acre.</p>	<p>Alfalfa weevil larvae, Aphids, Armyworms, Clover leaf weevil, Grasshoppers, Lygus bugs, Pea Aphid, Potato leafhoppers, Spider mites, Spittlebug, Vetch bruchid</p>	<p>Apply to Alfalfa in bloom only in the evening or early morning when bees are not working in the fields or are not hanging on the outside of hives</p> <p>The maximum application rate for alfalfa is 1.25 lbs ai/per acre/1 pint 4 oz of formulation; the maximum number of applications per year is 2 per cutting; and the minimum retreatment interval is 14 days.</p>
Lespedeza (0) Clover (7)	12	<p>1 pt 4 oz</p> <p>For aerial application, apply in 2-20 gallons of water per acre.</p> <p>For ground application, apply in 5-125 gallons of water per acre.</p>	<p>Alfalfa weevil larvae, Aphids, Armyworms, Clover leaf weevil, Grasshoppers, Lygus bugs, Pea Aphid, Potato leafhoppers, Spider mites, Spittlebug, Vetch bruchid</p>	<p>The maximum application rate for clover and lespedeza is 1.25 lbs/ai per acre/1 pint 4 oz of formulation; maximum number of application per year is 2 per cutting; and the minimum retreatment interval is 14 days.</p>

<p>DANDELIONS (7)</p>	<p>24</p>	<p>1 pt 4 OZ</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per acre.</p>	<p>Aphids</p>	<p>The maximum application rate is 1.25 lbs/ai per acre/1 pint 4 oz of formulation; the maximum number of applications per year is 2, and the retreatment interval is 7 days.</p>
<p>PARSLEY (7)</p>	<p>24</p>	<p>1 pt 8 OZ</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per acre.</p>	<p>Aphids, Spider Mites Aphids, Alfalfa Loopers, Leafhoppers, Mites</p>	<p>The maximum application rate is 1.50 lbs/ai per acre/1 pint 8 oz of formulation; the maximum number of applications per year is 2, and the retreatment interval is 7 days.</p>
<p>SWISS CHARD (14)</p>	<p>12</p>	<p>1 pt</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per acre.</p>	<p>Aphids</p>	<p>The maximum application rate is 1.0 lbs/ai per acre/1 pint of formulation; the maximum number of applications per year is 2, and the retreatment interval is 7 days.</p>

CELERY (7)	24	<p>1 pt 8 OZ</p> <p>For aerial application, apply in 2-20 gallons of water per acre.</p> <p>For ground application, apply in 5-125 gallons of water per acre.</p>	Aphids	<p>The maximum application rate is 1.50 lbs/ai per acre/1 pint 8 oz of formulation; the maximum number of applications per year is 2, and the retreatment interval is 7 days.</p>
LETTUCE (14)	24	<p>1 pt 14 OZ</p> <p>For aerial application, apply in 2-20 gallons of water per acre.</p> <p>For ground application, apply in 5-125 gallons of water per acre.</p>	Aphids	<p>The maximum application rate is 1.88 lbs/ai per acre/30 oz of formulation; the maximum number of applications per year is 2, and the minimum retreatment interval is 6 days for head lettuce and 5 days for leaf.</p>
ENDIVE (field) (7)	24	<p>1 pt 4 OZ</p> <p>For aerial application, apply in 2-20 gallons of water per acre.</p> <p>For ground application, apply in 5-125 gallons of water per acre.</p>	Aphids	<p>The maximum application rate is 1.25 lbs/ai per acre/1 pint 4 oz of formulation; the maximum number of applications per year is 2, and the minimum retreatment interval is 7 days.</p>

230A41

<p>SPINACH (7)</p>	<p>12</p>	<p>1 pt</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per acre.</p>		<p>The maximum application rate is 1.0 lbs/ai per acre/1 pint of formulation; the maximum number of applications per year is 2, and the retreatment interval is 7 days.</p>
<p>BEETS, Garden (7)</p> <p>Do not apply to Sugar Beets</p>	<p>12</p>	<p>1 pt 4 oz</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per acre.</p>	<p>Aphids, Beet armyworm, Blister beetles, Flea beetles</p>	<p>The maximum application rate is 1.25 lbs/ai per acre/1 pint 4 oz of formulation; the maximum number of applications per year is 3; and the minimum retreatment interval is 7 days.</p>
<p>BROCCOLI (2), BROCCOLI RAAB (2)</p> <p>(RAPINI, BRUSSEL SPROUTS (2), CAULIFLOWER (2), CHINESE BROCCOLI (2), CHINESE MUSTARD</p>	<p>48</p>	<p>1 pt 4 oz</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per acre.</p>	<p>Aphids, Cabbage loppers, flea beetles, Imported cabbage worms</p>	<p>The maximum application rate is 1.25 lbs/ai per acre/1 pint 4 oz of formulation; the maximum number of applications per year is 2, and the minimum retreatment interval is 7 days.</p>

240941

CHINESE CABBAGE (7)	24	<p>1 pt 4 oz</p> <p>For aerial application, apply in 2-20 gallons of water per acre.</p> <p>For ground application, apply in 5-125 gallons of water per acre.</p>	Aphids, Cabbage looppers, flea beetles, Imported cabbage worms	The maximum application rate is 1.25 lbs/ai per acre/1 pint 4 oz of formulation; the maximum number of applications per year is 2, and the minimum retreatment interval is 7 days.
CABBAGE (7)	48	<p>1 pt 4 oz</p> <p>For aerial application, apply in 2-20 gallons of water per acre.</p> <p>For ground application, apply in 5-125 gallons of water per acre.</p>	Aphids, Cabbage looppers, flea beetles, Imported cabbage worms	The maximum application rate is 1.25 lbs/ai per acre/1 pint 4 oz of formulation; the maximum number of applications per year is 6, and the minimum retreatment interval is 7 days.
TURNIPS (2)	48	<p>1 pt 4 oz</p> <p>For aerial application, apply in 2-20 gallons of water per acre.</p> <p>For ground application, apply in 5-125 gallons of water per acre.</p>	Aphids, Cabbage looppers, flea beetles, Imported cabbage worms	The maximum application rate is 1.25 lbs/ai per acre/1 pint 4 oz of formulation; the maximum number of applications per year is 2, and the minimum retreatment interval is 7 days.



250441

<p>KOHLRABI (7)</p>	<p>48</p>	<p>1 pt 4 oz</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per acre.</p>	<p>Aphids, Cabbage loppers, flea beetles, Imported cabbage worms</p>	<p>The maximum application rate is 1.25 lbs/ai per acre/1 pint 4 oz of formulation; the maximum number of applications per year is 2, and the minimum retreatment interval is 7 days.</p>
<p>MUSTARD GREENS (7)</p>	<p>12</p>	<p>1 pt</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per acre.</p>	<p>Aphids, Cabbage loppers, flea beetles, Imported cabbage worms</p>	<p>The maximum application rate is 1.0 lbs/ai per acre/1 pint of formulation; the maximum number of applications per year is 3; and the minimum retreatment interval is 5 days</p>
<p>CORN - Field(7)</p>	<p>72 Hrs for detasseling 12 for all other activities</p>	<p>1 pt</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per acre.</p>	<p>Aphids, Corn rootworm adults, Sap beetles, Thrips, Young grasshoppers</p>	<p>* Note: Injury may occur in whorl and silk stages The maximum application rate is 1.0 lbs/ai per acre/1 pint of formulation; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.</p>

260941

<p>CORN-Pop and Sweet (7)</p>	<p>72 Hrs for detasseling 12 for all other activities</p>	<p>1 pt For aerial application, apply in 2-20 gallons of water per acre.  For ground application, apply in 5-125 gallons of water per acre.</p>	<p>Aphids, Grasshoppers, Japanese beetles</p>	<p>For best grasshopper control, apply when nymphs are in the first through third instar.  Notice: injury may occur in whorl and silk stages.  The maximum application rate is 1.0 lbs/ai per acre/1 pint of formulation; the maximum number of applications per year is 2; and the minimum retreatment interval is 5 days.</p>
<p>COTTON (7)</p>	<p>48</p>	<p>1 pt - 2 pts 8 oz  1 pt 4 oz - 2 pts 8 oz  For aerial application, apply in 2-20 gallons of water per acre.</p>	<p>Aphids, Brown cotton leafworm, cotton leaf perforator, Leafhoppers, Spider mites, Whitefly  Boll Weevil, cotton Fleahoppers, Fall Armyworms, Grasshoppers, Garden webworms and Lygus</p>	<p>Do not graze or feed forage to livestock.  The maximum application rate is 2.5 lbs ai/per acre/2 pints 8 oz of formulation; the maximum number of applications per year is 3; and the minimum retreatment interval is 7 days.  <b>NOTE:</b> <b>Also see cotton application instructions at the end of the table.</b></p>

		For ground application, apply in 5-125 gallons of water per acre.		
CUCUMBERS (1),	24	1 pt 12 oz  For aerial application, apply in 2-20 gallons of water per acre.  For ground application, apply in 5-125 gallons of water per acre.	Aphids, Cucumber beetles, Cutworms, Darkling ground beetles, Leafhoppers, Pickleworm, Spider mites, Squash vine borer, thrips	* Do not apply unless plants are dry.  For vine borer, apply weekly to stems and vines at base of plant. The maximum application rate is 1.75 lbs ai/per acre; 1 pint 12 oz of formulation; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.
SUMMER SQUASH (1)	24	1 pt - 1 pt 12 oz  For aerial application, apply in 2-20 gallons of water per acre.  For ground application, apply in 5-125 gallons of water per acre.	Aphids, Cucumber beetles, Cutworms, Darkling ground beetles, Leafhoppers, Pickleworm, Spider mites, Squash vine borer, thrips	The maximum application rate for summer squash is 1.75 lbs/ai per acre/1 pint 12 oz of formulation; The maximum number of applications per year for summer squash is 3; and the minimum retreatment interval for summer squash is 7 days.

280F41

<p>WINTER SQUASH (1)</p>	<p>12</p>	<p>1 pt  For aerial application, apply in 2-20 gallons of water per acre.  For ground application, apply in 5-125 gallons of water per acre.</p>	<p>Aphids, Cucumber beetles, Cutworms, Darkling ground beetles, Leafhoppers, Pickleworm, Spider mites, Squash vine borer, thrips</p>	<p>The maximum application rate for winter squash is 1.0 lbs/ai per acre/16 oz of formulation; The maximum number of applications per year winter squash is 3; and the minimum retreatment interval winter squash is 7 days.</p>
<p>EGGPLANT (3)</p>	<p>12</p>	<p>12 oz - 1 pt 9 oz  1 pt 9 oz  For aerial application, apply in 2-20 gallons of water per acre.  For ground application, apply in 5-125 gallons of water per acre.</p>	<p>Aphids, Spider mites  Lacebugs</p>	<p>The maximum application rate is 1.56 lbs/ai per acre/1 pint 9 oz of formulation; the maximum number of applications per year is 4; and the minimum retreatment interval is 5 days.</p>
<p>FLAX (52)</p>	<p>12</p>	<p>8 oz  For aerial application, apply in 2-20 gallons of water per acre.  For ground</p>	<p>Grasshoppers</p>	<p>The maximum application rate is 0.5 lbs/ai per acre; 8 oz of formulation; the maximum number of applications per year is 3; and</p>

		application , apply in 5-125 gallons of water per acre.		the minimum retreatment interval is 7 days.
GARLIC, LEEKS, SHALLOTS (3)	24	1 pt - 1 pt 9 oz  For aerial application , apply in 2-20 gallons of water per acre.  For ground application , apply in 5-125 gallons of water per acre.	Aphids, Thrips	The maximum application rate is 1.56 lbs ai/per acre/1 pint 9 oz of formulation; the maximum number of applications per year is 2 for leeks and shallots - 3 for garlic; and the minimum retreatment interval is 7 days.
GRASSES- (such as BARN GRASS, BERMUDA, CANARY GRASS, FESCUE, ORCHARD GRASS, RED TOP, TIMOTHY AND YELLOW FOXTAIL (0)	12	1 pt - 1pt 4 oz  For aerial application , apply in 2-20 gallons of water per acre.  For ground application , apply in 5-125 gallons of water per acre.	Aphids, Grasshoppers, Leaf hoppers	Apply in sufficient water for good coverage. The maximum application rate is 1.25 lbs/ai per acre/1 pint 4 oz of formulation; the maximum number of applications per year is 1.
GRASSES- PASTURE AND RANGELAND (0)  <u>ULV ONLY:</u> Use closed	12	12-14 oz.	Aphids, Grasshoppers, Leaf hoppers	The maximum application rate is 0.92 lbs/ai per acre/14 oz of formulation in 2 gallons of water or 0.92 lbs/ai

300441

<p><b>mixing and loading systems.</b></p>				<p>per acre/14 oz of formulation in 1 gallon of diesel fuel oil per acre. Maximum number of applications is 1 per cutting. The minimum retreatment interval is 7 days.</p>
<p>HOPS (10)</p>	<p>12</p>	<p>10 oz</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per acre.</p>	<p>Aphids</p>	<p>The maximum application rate is 0.63 lbs/ai per acre/10 oz of formulation; the maximum number of applications per year is 3; and the minimum retreatment interval is 7 days.</p>
<p>HORSERADISH (7) PARSNIPS (7) SALSIFY (7)</p>	<p>24</p>	<p>1 pt 4 oz</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per acre.</p>	<p>Aphids, Diamon dback moths, Flea beetles, Leafhoppers</p>	<p>The maximum application rate is 1.25 lbs ai/per acre/1 pint 4 oz of formulation; the maximum number of applications per year is 3; and the minimum retreatment interval is 7 days.</p>

31041

<p>RADISHES (7)</p>	<p>12</p>	<p>1 pt</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per acre.</p>	<p>Aphids, Diamon dback moths, Flea beetles, Leafhoppers</p>	<p>The maximum application rate for radishes is 1.0 lbs ai/per acre/1 pint of formulation; the maximum number of application per year is 3, and the minimum retreatment interval is 7 days.</p>
<p>OKRA (1)</p>	<p>12</p>	<p>1 pt 3 oz</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per acre.</p>	<p>Aphids, Japanese beetles</p>	<p>The maximum application rate is 1.2 lbs ai/per acre/1 pint 3 oz of formulation; the maximum number of applications per year is 5; and the minimum retreatment interval is 7 days.</p>
<p>ONION- Bulb and Green ( Field) (3)</p>	<p>12</p>	<p>1 pt- 1 pt 9 oz</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per acre.</p>	<p>Thrips Onion Maggots</p>	<p>The maximum application rate is 1.56 lbs/ai per acre/1 pint 9 oz of formulation; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.</p>

PEAS (3)	12	<p>1 pt</p> <p>For aerial application, apply in 2-20 gallons of water per acre.</p> <p>For ground application, apply in 5-125 gallons of water per acre.</p>	Aphids, Pea weevils	<p>* Do not graze or feed forage to livestock.</p> <p>The maximum application rate is 1.0 lbs/ai per acre/1 pint of formulation; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.</p>
PEPPERMINT (7) SPEARMINT (7)	12	<p>15 oz</p> <p>For aerial application, apply in 2-20 gallons of water per acre.</p> <p>For ground application, apply in 5-125 gallons of water per acre.</p>	Adult flea beetles, Leafhoppers	<p>The maximum application rate is 0.94 lbs ai/per acre/15 oz of formulation; the maximum number of applications per year is 3; and the minimum retreatment interval is 7 days.</p>
PEPPERS (Field) (3)	12	<p>1 pt 9 oz</p> <p>For aerial application, apply in 2-20 gallons of water per acre.</p> <p>For ground application, apply in 5-125 gallons of water per acre.</p>	Aphids, Pepper maggots	<p>The maximum application rate is 1.56 lbs/ai per acre/1 pint 9 oz of formulation; the maximum number of applications per year is 2; and the minimum retreatment interval is 5 days.</p>



330441

<p>POTATOES (none)</p>	<p>12</p>	<p>1 pt</p> <p>1 pt 9 OZ</p> <p>For aerial application, apply in 2-20 gallons of water per acre.</p> <p>For ground application, apply in 5-125 gallons of water per acre.</p>	<p>False chinch bugs, Leafhoppers, mealybugs</p> <p>Aphids, Blister beetles</p>	<p>The maximum application rate is 1.56 lbs ai/per acre/1 pint 9 oz of formulation; the maximum number of application per year is 2; and the minimum retreatment interval is 7 days.</p>
<p>RICE- Domestic, Grain, or Wild (7)</p>	<p>12</p>	<p>1 pt</p> <p>For aerial application, apply in 2-20 gallons of water per acre.</p> <p>For ground application, apply in 5-125 gallons of water per acre.</p>	<p>Rice leaf miners, Rice stink bugs</p>	<p>* Do not apply Propanil within 15 days of malathion treatment. Broadcast use only over intermittently flooded areas. Application may not be made around bodies of water where fish or shellfish are grown and/or harvested commercially.</p> <p>The maximum application rate is 1.0 lbs/ai per acre/1 pint of formulation; the maximum number of applications per year is 2, and</p>

5/10/41

				the minimum retreatment interval is 7 days.
RUTABAGAS (7)	12	1 pt  For aerial application, apply in 2-20 gallons of water per acre.  For ground application, apply in 5-125 gallons of water per acre.	Aphids	The maximum application rate is 1.0 lbs/ai per acre/1 pint of formulation; the maximum number of applications per year is 3; and the minimum retreatment interval is 7 days.
BARLEY (7)	12	1 pt -1 pt 4 oz  For aerial application, apply in 2-20 gallons of water per acre.  For ground application, apply in 5-125 gallons of water per acre.	Armyworms, english grain aphids, Grasshoppers, Greenbugs	The maximum application rate is 1.25 lbs/ai per acre/1 pint 4 oz of formulation; the maximum number of applications per year is 2, and the minimum retreatment interval is 7 days.
(OATS, RYE, WHEAT) (7)	12	1 pt  For aerial application, apply in 2-20 gallons of water per acre.  For ground application, apply in 5-125 gallons of water per acre.	Armyworms, english grain aphids, Grasshoppers, Greenbugs	The maximum application rate is 1.0 lbs/ai per acre/1 pint of formulation; the maximum number of application per year is 2 for oats and wheat - 3 for rye, and the minimum retreatment interval is 7 days.

35041

<p>SORGHUM- Grain (7)</p>	<p>12</p>	<p>1 pt</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per acre.</p>	<p>greenbugs</p>	<p>* Do not graze or feed forage to livestock</p> <p>The maximum application rate is 1.0 lbs/ai per acre/1 pint of formulation; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.</p>
<p>STRAWBERRIES (3)</p>	<p>12</p>	<p>2 pts</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per acre.</p>	<p>Aphids, Field crickets, Lygus bugs, Potato leafhoppers, Spider mites, Spittlebugs, Strawberry leafrollers, Strawberry root weevils, Thrips, Whiteflies</p>	<p>The maximum application rate is 2.0 lbs/ai per acre/2 pints of formulation; the maximum number of applications per year is 4; and the minimum retreatment interval is 7 days.</p>
<p>SWEET POTATOES (0)</p>	<p>12</p>	<p>1 pt-1 pint 4 oz</p> <p>1 pt 9 oz</p> <p>For aerial application , apply in 2-20 gallons of water per acre.</p> <p>For ground application , apply in 5-125 gallons of water per</p>	<p>Leafhoppers</p> <p>Morning glory Leafminers</p>	<p>The maximum application rate is 1.56 ai/per acre/1 pint 9 oz of formulation; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.</p>

		acre.		
TOMATOES (Field) (1)	12	1 pint 4 oz - 1 pt 9 oz  For aerial application , apply in 2-20 gallons of water per acre.  For ground application , apply in 5-125 gallons of water per acre.	Aphids, Spider mites Drosophilla flies	Apply a full coverage application to fruit and foliage  The maximum application rate is 1.56 lbs ai/per acre/1 pint 9 oz of formulation; the maximum number of applications per year is 4; and the minimum retreatment interval is 5 days.
WATERCRESS (3)	SEE COMMENTS	1 pt - 1 pt 4 oz.  For aerial application , apply in 2-20 gallons of water per acre.  For ground application , apply in 5-125 gallons of water per acre.	Aphids, Spider Mites	The maximum application rate is 1.25 lbs ai/per acre/1 pint 4 oz of formulation. The REI is 24 hours.  * OR  The maximum application rate is 1.0 lbs ai/per acre/1 pint of formulation. The REI is 12 hours. For either rate, the maximum number of applications per year is 5; and the minimum retreatment interval is 3 days.

37 of 41

**NOTE: COTTON APPLICATION INSTRUCTIONS:**

**TANK MIX INSTRUCTIONS**

For a complete cotton spray program, this product may be combined with other registered cotton insecticides. Carefully follow all precautions and directions in the labeling of any product used in combination with Malathion 8EC. Do not use registered products at higher dosages than is specified on the label. Do not use in combination with Malathion 8EC any product that prohibits such use. The use of Malathion 8EC in combination with products containing carbaryl may cause injury to cotton.

Apply only when weather conditions are favorable. Wind or rising air currents may cause undesirable spray drift and reduce insect control. Cover foliage uniformly. Time treatments and set dosages according to insect populations or damage. Consult your local extension service or professional consultant for treatment advice.

**OUTDOOR ORNAMENTALS**

**NOTE:** Before treating a large number of ornamental plants with Malathion 8 EC alone or as a tank mixture with any other material, make a test application on a few plants and observe for 7-10 days prior to treating large areas to reduce the possibility of plant injury.

CROP	REI HRS	RATE PTS/ ACRE	PESTS	COMMENTS
ORNAMENTAL NON-FLOWERING PLANTS, ORNAMENTAL HERBACEOUS PLANTS, ORNAMENTAL WOODY SHRUBS AND VINES, ORNAMENTAL AND/OR SHADE TREES	12	1 pt in 100 gals of water as a spray	Aphids, Euonymus scales, European pine shoot moths, Four lined leaf bugs, Japanese beetle adults, Lace scales, Mealybugs, Millipedes, Oyster shell scales, Potato Leafhoppers, Rose Leafhoppers, Scurfy scales, Spider Mites, Springtails, Sowbugs, tarnished plant bugs, Thrips, whiteflies	Attention: Avoid use on certain ferns including boston, Maidenhair, and pteris, as well as some species of Crassula and Canaeteri Juniper. For oyster scale, Fletch, Juniper, Oak Kermes and pine needle scale:
		1 pt 12 oz	Azalea scales, Bagworms, Birch leafminers, Boxwood	

38041

	in 100 gals. Of water as a spray	leafminers, Fletch scales, Florida-red scales, Jumper scales, Magnolia scales, Oak Kermes, Pine leaf scales, tent caterpillars.	apply when scale crawlers have settled on the foliage The maximum application rate is 2.5 lbs ai/2 pints 8 oz of formulation;
	2 pts 8 oz in 100 gals of water	Black scale crawlers, Monterey, pine scales	The maximum number of applications per year is 2 per year /growing cycle; and the minimum retreatment interval is 10 days; exception for herbaceous plants and non- flowering plants.
	2 pts 8 oz in 100 gals of water	Pine needle scales, wax scales	

**SLASH PINE, PINE SEED ORCHARDS, AND CHRISTMAS TREE PLANTATIONS**

CROP	REI HRS	RATE PTS/ ACRE	PESTS	COMMENTS
SLASH PINE, PINE SEED ORCHARDS, AND CHRISTMAS TREE PLANTATIONS	12	For ground application mix 3 pts 3 oz of Malathion 8EC in 100 gals. of water  For air application	Slash pine flower thrips, European pine sawfly	Ground Application: Apply 3/4 gallon of the mixture per tree on the smallest flowering trees. Mist blowers or airblast sprays may be used.  Air application:

39 of 41

CROP	REI HRS	RATE PTS/ ACRE	PESTS	COMMENTS
		mix 3 pts 3 oz Malathion 8 EC in at least 5 gals of water		Apply a minimum of 5 gallons of mixture per acre. Make two applications, the first when female flowers are in twig bud stage, the second one week prior to maximum flower receptivity to pollen. For both air and ground applications the maximum application rate is 3.2 lbs/ai per acre/3 pts 3 oz of formulation; maximum of 2 applications per year. The minimum application interval is 7 days. The REI is 12 hrs.

**MOSQUITO LARVAE CONTROL IN STANDING WATER**

Only for use in intermittently flooded areas, stagnant water, temporary rail ponds, and log ponds.

**KEEP OUT OF FISH BEARING WATERS**

Apply Malathion 8 EC at the rate of 0.5075 lb ai/per acre/8 fluid ounces per acre. Mix in sufficient water or oil to obtain even coverage when applied by air or ground equipment. Repeat applications as necessary. Avoid applying oil-based formulations to valuable ornamental plants as injury may occur. Broadcast use only over intermittently flooded areas. Application may not be

40 of 41

made around bodies of water where fish or shellfish are grown and/or harvested commercially.

**SMALL GRAIN STORAGE FACILITIES (GRAIN ELEVATORS/SILOS)**

(corn, wheat, rye, oats and barley)

For a residual wall, floor, and machinery spray in grain elevators, apply 0.4762 lb/1000 ft<sup>2</sup> - 8 oz of formulation per 25 gallons of water making thorough application. Before applying spray, clean elevators, thoroughly. Remove and burn all sweepings and debris. The maximum number of applications is 1 per storage period and the REI is 12 hours.

**DROSOPHILIA FLY AND DRIED FRUIT BEETLE CONTROL FLY CONTROL**

**ON OR AROUND CULL FRUIT AND VEGETABLE DUMPS:** 0.2439 lb ai - 4 oz of formulated product/1000 ft<sup>2</sup> in 100 gallons of water. Apply as a drench, using 8 to 10 gallons of spray per 100 sq. ft. For best results, dumps should not be over 18 inches deep. Do not feed treated fruit and vegetables.

**Warranty and Disclaimer Statement**

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer. Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES.**



41 of 41

NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ARYSTA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF ARYSTA, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ARYSTA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.