

19713-399

05-15-2009

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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Luz G. Chan  
Registration Manager  
Drexel Chemical Company  
P.O. Box 13327  
Memphis, TN 38113-0327

MAY 15 2009

Subject: Label Notification(s) for Pesticide Registration Notice 98-10 and 2007-4

1. Updated warranty statement
2. Other minor changes

Dear Ms. Chan:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notices (PRN) 2007-4 and 98-10 dated February 25, 2009 for:

**EPA Registration 19713-399**

**Drexel Endosulfuran 3EC**

The Registration Division (RD) has conducted a review of this request for applicability under PR Notices 2007-4 and 98-10 and finds that the label changes requested falls within the scope of PR Notices 2007-4 and 98-10. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Nicole Williams of my staff at 703-308-5551.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95



United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number 19713-399	2. EPA Product Manager Kimberly Nesci	3. Proposed Classification <input type="checkbox"/> None <input checked="" type="checkbox"/> Restricted
4. Company/Product (Name) DREXEL ENDOSULFAN 3EC	PM# 11/Insecticide Branch	
5. Name and Address of Applicant (Include ZIP Code) Drexel Chemical Company P.O. Box 13327 Memphis, TN 38113-0327 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ <b>NOTIFICATION</b> Product Name _____ <b>MAY 15 2009</b>	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated <u>1/22/2009</u>
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of revised label (399SP-0209\*) incorporating EPA's comments of 1/22/09 and revision on storage and disposal statement per PR Notice 2007-4.  
Thank you.

### Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
		If "Yes" Package wgt	No. per container	<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1, 2.5, 5, 10, 15, 30, 55, Bulk		5. Location of Label Directions <input type="checkbox"/> _____ <input checked="" type="checkbox"/> On the container	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name LUZ G CHAN	Title REGISTRATION MANAGER	Telephone No. (Include Area Code) (901) 774-4370
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received <b>(Stamped)</b>
2. Signature <i>Luza Chan</i> 2009.02.25 12:06:59 -06'00'	3. Title REGISTRATION MANAGER	
4. Typed Name LUZ G CHAN	5. Date February 25, 2009	



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EK

**Drexel Chemical Company**

February 25, 2009

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
Rm S-4900, One Potomac Yard  
2777 S Crystal Drive  
Arlington, VA 22202

**Re: Submission of Revised Label by Notification per PR Notices 98-10 and 2007-4 and per EPA's EPA Stamped Accepted Label dated January 22, 2009  
DREXEL ENDOSULFAN 3EC (EPA Reg. no. 19713-399)**

Herewith:

1. Completed EPA Form 8570-1
2. One (1) copy of the label (399SP-0209\*) incorporating EPA's comments dated 1/22/2009.

However, please note that to EPA's comment # 7 for the crop, Apple, we did not delete the statement "For airblast application, the use of a closed cab is required.". Instead, we maintained it and added the statement, "Exception for airblast application to apples: When application using enclosed-cab.....goggles or face shield.)". We believe that it was a typographical error from EPA to have the said statement replaced.

ii) Per PR Notice 2007-4, the storage and disposal statements were updated.

iii) Under Warranty, the word "Recommendations" found on the first sentence was replaced with "Directions" to read "Our *Directions* For Use of this product.....reliable." This change is permitted in PR Notice 98-10.

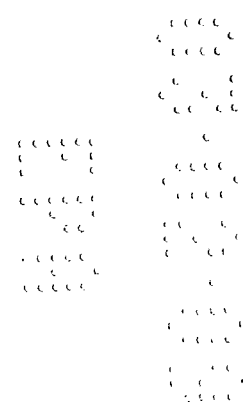
I highlighted the changes for easy reference.

3. Certification Statements

If you have questions/clarification regarding this submission, I can be reached at (901) 774-4370 or e-mail [Lchan@drexchem.com](mailto:Lchan@drexchem.com). Thank you.

Respectfully yours,  
FOR DREXEL CHEMICAL COMPANY

  
Luz G Chan  
Registration Manager



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# RESTRICTED USE PESTICIDE

Due to acute toxicity to humans, aquatic organisms, and avian species. For retail sale to and use only by certified applicators or persons under their direct supervision, and only for those uses covered by the certified applicator's certification.

NOTIFICATION

MAY 15 2009

# Drexel

# Endosulfan 3EC

## Insecticide

For Agricultural or Commercial Use Only. Not for use or storage in or around residential sites - see DIRECTIONS FOR USE / GENERAL INFORMATION for prohibited areas.

### ACTIVE INGREDIENT:

Endosulfan ..... 34.0%

OTHER INGREDIENTS\*: ..... 66.0%

TOTAL: ..... 100.0%

This product contains 3 pounds of Endosulfan per gallon.

\*Contains xylene range aromatic solvent.

### KEEP OUT OF REACH OF CHILDREN

# DANGER PELIGRO POISON VENENO



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

See **FIRST AID** Below  
**SHAKE WELL BEFORE USING**

EPA Reg. No. 19713-399

EPA Est. No. 19713-XX-XXX

Net Content: \_\_\_\_\_

### FIRST AID

#### IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Do not give any liquid to the person.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious or convulsing person.

#### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.

#### IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

#### 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 treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

**NOTE TO PHYSICIAN:** Endosulfan is a central nervous system stimulant absorbable by mouth, inhalation or through contact with skin. It may cause convulsions. There is no specific antidote. Diazepam I.V. is the drug of choice. Barbituric acid derivatives such as phenobarbital may be used additionally. A neuromuscular blocking agent may be used if convulsions persist. This type of drug may be used only if complete control of respiration can be maintained. Epinephrine derivatives are absolutely contraindicated. This formula contains petroleum hydrocarbons (xylene range aromatic solvent). Care should be taken to prevent aspiration because of the possibility of chemical pneumonia or pulmonary edema due to the organic solvent in the formulation. Probable mucosal damage may contraindicate the use of gastric lavage.

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

**DANGER:** Fatal if swallowed, inhaled, or absorbed through skin. Corrosive. Causes irreversible eye damage. Do not get in eyes, on skin or on clothing. Do not breathe vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Wear appropriate protective clothing listed below. Remove and wash contaminated clothing before reuse.

Do not contaminate food or feed. Keep out of reach of domestic animals. Food utensils such as spoons and measuring cups must not be used for food purposes after use in measuring pesticides.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

#### All handlers except those using engineering controls must wear:

- Respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an (OV) cartridge or a canister with any R, P or HE prefilter.

#### IN ADDITION:

All mixers and loaders who are not using engineering controls (see engineering requirements below), handlers supporting or using high pressure handwand equipment and flaggers must wear:

- Coveralls over long-sleeved shirt and long pants, chemical-resistant footwear plus socks, goggles or face shield, chemical-resistant gloves (except when flagging), chemical-resistant headgear when exposed overhead, and chemical-resistant apron when mixing and loading.

#### All other mixers, loaders, applicators, and handlers must wear:

- Long-sleeved shirt and long pants, socks and shoes, goggles or face shield, chemical-resistant gloves except for applicators using enclosed cabs or cockpits, chemical-resistant apron when mixing and loading, applying dips, cleaning up spills or cleaning/repairing equipment, and a respirator of the type specified above for all handlers except for those using engineering controls.

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.

Manufactured By:

## Drexel Chemical Company

P.O. BOX 13327, MEMPHIS, TN 38113-0327

SINCE 1972

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### ENGINEERING CONTROLS

Mixers and loaders supporting aerial applications at the rate of more than 1.5 lbs. ai. per acre or supporting applications to Cotton must use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)] for dermal and inhalation protection, and must:

- Wear long-sleeved shirt, long pants, shoes, socks, chemical-resistant gloves, and chemical-resistant apron.
- Wear protective eyewear (face shield or goggles), if the system operates under pressure.
- Be provided and have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown: coveralls, chemical-resistant footwear, and the type of respirator specified in the PPE section.

Applicators using airblast equipment on all crops except ornamental trees and shrubs must use an enclosed cab that meets the definition in the WPS for agricultural pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, such applicators must:

- Wear the personal protective equipment required in the PPE section of this labeling,
- Either wear the type of respirator specified in the PPE section of this labeling or use an enclosed cab that is declared in writing by the manufacturer or by a government agency to provide at least as much respiratory protection as the type of respirator specified in the PPE section of this labeling.
- Be provided and must have immediately available for use in an emergency when they must exit the cab in the treated area: coveralls, chemical-resistant gloves, chemical-resistant footwear, chemical-resistant headgear, if overhead exposure, and, if using an enclosed cab that provides respiratory protection, a respirator of the type specified in the PPE section of this labeling,
- Take off any PPE that was worn in the treated area before reentering the cab, and
- Store all such PPE in a chemical-resistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)].

When handlers use closed systems and enclosed cabs, in a manner that meets the requirements listed in the 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:** 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 product is extremely toxic to fish and aquatic invertebrates and toxic to birds and mammals. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. See Spray drift management instructions under **DIRECTIONS FOR USE**. Do not contaminate water when disposing of equipment wash waters or rinsate.

### PHYSICAL OR CHEMICAL HAZARDS

Combustible. Do not use, pour, spill or store near heat or open flame.

### DIRECTIONS FOR USE RESTRICTED USE PESTICIDE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. 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 (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, 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 (REI) and notification to workers.

(Continued)

### AGRICULTURAL USE REQUIREMENTS (Cont.)

The requirements in this box only apply to uses of this product that are covered by the WPS.

**Do not enter or allow worker entry into treated areas during the REI.**

Exception: If the product is soil-injected or soil-incorporated, the WPS, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the WPS 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, protective eyewear, and shoes plus socks.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated area.

For use in California, refer to the California Supplemental Label, "PROCEDURES FOR REDUCING THE RISK OF CONTAMINATION OF AQUATIC ECOSYSTEMS IN CALIFORNIA, which follows the CHEMIGATION STATEMENT" on this label.

### GENERAL INFORMATION

Not for use or storage in or around residential sites, including, homes, non-agricultural outbuildings, non-commercial greenhouses, recreational vehicles, preschools, day care centers, and not for application to humans and pets. Apply the listed amount per acre when insects first appear and repeat as required, unless otherwise noted, to maintain effective control. Use in sufficient water for thorough coverage of listed crops, unless otherwise noted. Coverage of upper and lower leaf surfaces is essential for good control. For ground application, apply recommended amount of pesticide in a minimum of 10 gallons of water per acre on vegetable or row crops, unless otherwise noted. Observe use limitations. If insect control is required beyond the following use patterns, supplement the control program with other suitable pesticides. When applying this material by aircraft, mix the recommended amount with sufficient water to provide a minimum of 1 gallon of finished spray per acre on vegetable and field crops, unless otherwise noted, and a minimum of 20 gallons of finished spray per acre on fruit and nut trees and on vines. Where more than 2 quarts of this material are recommended, mix with sufficient water to provide a minimum of finished spray equal to twice the amount of this product used. Do not plant root crops other than Carrots, Potatoes, Sweet potatoes and Sugar beets as follow-up crops. Observe days interval between last application and harvest.

Observe state and regional restrictions and limitations if indicated in the crop headings. (CA only) indicates instructions specific to California. (Except CA) indicates uses for all states excluding California. No state restrictions indicates that the use is valid in California and all other states.

### SPRAY DRIFT MANAGEMENT

1. 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, non-target crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.
2. A 30 ft. vegetative buffer strip must be maintained between all areas treated with this product and rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries and commercial fish ponds.
3. For ground boom applications, do not apply within 100 feet of rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries and commercial fish ponds. Apply with nozzle height no more than 4 feet above the ground or crop canopy and when wind speed is 10 mph or less at the application site as measured by an anemometer. Use fine, medium or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles.
4. For orchard airblast applications, do not apply within 100 feet of rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries and commercial fish ponds. Direct spray above trees and turn off outward pointing nozzles at row ends and outer rows. Apply only when wind speed is 3 to 10 mph as measured by an anemometer outside of the orchard on the upwind side.
5. For aerial applications, do not apply within 300 feet of rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries and commercial fish ponds. The boom width must not exceed 75% of the wingspan or 90% of the rotary blade. Use upwind swath displacement and apply only when wind speed is 3 to 10 mph as measured by an anemometer. Use fine, medium or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground or the crop canopy.
6. For overhead chemigation, do not apply within 100 feet of rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries and commercial fish ponds. Apply only when wind speed is 10 mph or less.
7. The applicator also must use all other measures necessary to control drift.

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**ADDITIONAL USE RESTRICTIONS**

- The use of high pressure hand wand on all sites except for Bark treatment or Tobacco is prohibited.
- If using high pressure hand equipment or Rights-of-Way sprayers, reduce the maximum rate of application to 0.005 lb. active ingredient (0.2 fl. oz. of this product) per gallon.

**CHEMIGATION STATEMENT**

**Chemigation Use Instruction—Potatoes Only (Not registered for use in California)**

Do not apply this product through any type of irrigation system to other crops. Do not apply this product to Potatoes through any type of irrigation system unless chemigation application instructions are followed. For overhead chemigation, do not apply within 100 feet of rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries, and commercial fish ponds. Apply only when wind speed is 10 mph or less.

**Application Through Irrigation Systems—Chemigation**

Apply this product only through sprinkler, including center pivot, lateral move, end tow, side (wheel) roll, traveler, bug gun, solid set or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Crop injury, 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 your State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for the operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Mix in clean supply tank the recommended amount of this product for acreage to be covered and needed quantity of water.

This product should not be tank-mixed with other pesticides, surfactants or fertilizers unless prior use has shown the combination non-injurious under your conditions of use. Follow precautionary statements and directions for all tank mix products.

On all crops, use sufficient gallonage of water to obtain thorough and uniform coverage, but not cause runoff or excessive leaching. This will vary depending on equipment, pest problem and state of crop growth. Application of more or less than optimal quantity of water may result in decreased chemical performance, crop injury or illegal pesticide residues. Meter this product into the irrigation water uniformly during the period of operation. Do not overlap application. Follow recommended label rates, application timing and other directions and precautions for crop being treated. Continuous mild agitation of pesticide mixture may be needed to assure a uniform application, particularly if the supply tank requires a number of hours to empty. Do not apply when wind speed favors drift beyond the area intended for treatment.

**Chemigation Systems Connected To Public Water Systems**

**Note:** DREXEL CHEMICAL does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options before selecting to make such a connection. Public water system 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. 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 a 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. 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 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 shutdown.

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.

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.

**Sprinkler Chemigation (Foliar Spray Uses)**

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.

**PROCEDURES FOR REDUCING THE RISK OF CONTAMINATION OF AQUATIC ECOSYSTEMS IN CALIFORNIA FOR CROP USES LISTED ON THE PRODUCT LABEL**

Endosulfan may be a source of contamination in aquatic ecosystems as a result of runoff from agricultural land due to discharge of irrigation water or during periods of heavy rainfall.

To minimize the chance of aquatic impact, the following conditions must be met to allow applications of this product:

**DIRECTIONS FOR USE IN CALIFORNIA (GENERAL)**

In addition to specific instructions under "DIRECTIONS FOR USE" on the principal label, the following conditions must also be followed for use in California:

1. Do not apply this product to fields during irrigation or irrigate for 72 hours following an application.
2. Do not apply this product through any type of irrigation system.
3. Do not apply more than 1.5 pounds of active ingredient per acre per application, or more than 3 pounds of active ingredient per acre per season. (Orchard crops and Strawberries exempted on rate per acre per application restriction).
4. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.
5. Do not apply by ground or air within a distance of 300 feet to natural bodies of water including lakes, ponds, streams and estuaries.

**ACCEPTABLE SITES FOR APPLICATION OF THIS PRODUCT IN CA**

1. Fields with no drains, having containment through berms (able to hold irrigation water and normal rainwater), levees and non-draining circulation systems.
2. Fields with drains, but drainage flows to sump, farm pond, evaporation pond or recirculation system without drainage (uncontrollable overflow acceptable, e.g., 10 or 100 year flood). Only grower maintained recirculation systems without drainage are acceptable.
3. Fields with surface drains that naturally flow onto pastureland or fallow fields that have no channeled drainage and are at least 300 feet long.

**UNACCEPTABLE SITES FOR APPLICATION OF THIS PRODUCT IN CA**

1. Fields draining directly into surface waters such as streams, rivers, lakes, ponds, marshes, bays, estuaries or the ocean.
2. Fields draining into surface drainage ditches or canals that flow directly into surface waters such as streams, rivers, lakes, ponds, marshes, bays, estuaries or the ocean.
3. Any and all fields with surface drainage patterns in the Moss Landing Drainage System having main arteries that drain into the Elkhorn Slough (Northern portion of Monterey County).
4. Any and all fields with drainage patterns in the San Diego Creek Drainage System having main arteries that drain into Newport Bay.

All applicable directions, restrictions and precautions on the EPA registered label are to be followed.

This label must be in the possession of the user at the time of pesticide application.

**FOR DRIFT CONTROL**

1. All application equipment should be properly maintained and calibrated using appropriate carriers.
2. Do not make aerial or ground applications during temperature inversions.
3. 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 10 mph. Do not discharge at a height of more than 10 feet above the crop or target.

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4. For aerial applications, a positive shutoff system shall be in place to control flow of liquid to spray nozzles as follows: Each individual nozzle shall be equipped with a check valve and the flow controlled by a suckback device or a boom pressure release device; or each nozzle shall be equipped with a positive action valve.
5. For aerial applications, the spray boom must be mounted on the aircraft so as to minimize drift caused by wing tip or rotor vortices. The working boom length must not exceed 75% of wingspan or rotor diameter.
6. Aircraft boom pressure shall not exceed 40 pounds per square inch.
7. Aircraft nozzles shall be equipped with orifices directed backward, parallel to the horizontal axis of the aircraft in flight.
8. Aircraft nozzles shall not be equipped with any device or mechanism which would cause a sheet, cone, fan or similar type dispersion of the discharged material except as otherwise provided.
9. Fixed-wing aircraft and helicopters operating in excess of 60 mph shall be equipped with jet nozzles having an orifice not less than one-sixteenth inch in diameter (D-4 or larger).
10. Helicopters operating at 60 mph or less shall be equipped with nozzles having an orifice not less than one-sixteenth inch in diameter. A number 46 or equivalent whirlplate may be used.
11. For ground applications, equipment other than handguns shall be equipped with nozzles having an orifice not less than one-sixteenth inch in diameter or larger. Boom nozzles shall be operated at a boom pressure not to exceed 30 pounds per square inch.

**OBSERVE DAYS INTERVAL BETWEEN LAST APPLICATION AND HARVEST INDICATED BY NUMBER IN ( ) FOLLOWING CROP.  
REI = Restricted Entry Interval**

Crop	Pests	Rate of Application
Almonds (58)	(Early infestation of): Peach twig borers	2.66 qts. per acre
REI = 2 days	SPECIFIC DIRECTIONS: Apply during Popcorn, pink or petal fall for control of early season infestation. Use in a minimum of 200 gals. of water per acre (dilute) or in 40 gals. per acre (concentrate). For areas less than 1 acre, use 0.7 qt. per 100 gals. of water.	
<p><b>Note:</b> Do not graze livestock on orchard crops or grasses in treated areas. Treated hulls may be fed to livestock and dairy animals. Do not make more than 1 application per season. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season. For airblast application, the use of a closed cab is required. For aerial application, the use of a closed mixing/loading system is required.</p>		
Apples (21) (Except CA)	Aphids (including Apple aphids, Rosy apple aphids, Woolly apple aphids), Apple rust mites, Green fruitworms, Tarnished plant bugs, Tentiform leafminers, White apple leafhoppers (first generation)	0.66 qt. per 100 gals. or a maximum of 3.33 qts. per acre
REI = 2 days	SPECIFIC DIRECTIONS: Applications made at pink and/or petal fall provide best control of Tarnished plant bugs and Green fruitworms. For best control of first generation White apple leafhoppers, apply when nymphs first appear on leaves. If necessary, prior to petal fall, use 1 qt. per 100 gals. to control Apple aphids and Rosy apple aphids. For control of Tentiform leafminers, make first application as soon as moth flight begins. A second application should be made 10 days later.	
<p><b>Note:</b> Do not feed pomace from treated Apples to livestock. Do not feed cull fruits to animals or allow livestock to graze in treated orchards. Do not make more than 2 applications during the fruiting period. Do not make more than 3 applications per year. Do not exceed a maximum of 2.5 lbs. of active ingredient (i.e., 3.33 qts.) per acre per season. For airblast application, the use of a closed cab is required. Exception for airblast application to Apples: When application using enclosed cab airblast equipment is not feasible in Apple orchards, applicators are permitted to use open cab airblast equipment PROVIDED they are wearing chemical-resistant headgear AND maximum PPE clothing (i.e., baseline clothing plus organic vapor respirator, coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, chemical-resistant shoes plus socks, and goggles or face shield). For aerial application, the use of a closed mixing/loading system is required.</p>		

Crop	Pests	Rate of Application
Apples (30) (CA only)	Aphids (including Apple aphids, Rosy apple aphids, Woolly apple aphids), Apple rust mites, White apple leafhoppers (first generation)	0.66 qt. per 100 gallons or a maximum of 3.33 qts. per acre
REI = 2 days	SPECIFIC DIRECTIONS: For best control of first generation White apple leafhoppers, apply when nymphs first appear on leaves. If necessary, prior to petal fall, use 1 qt. per 100 gals. to control Apple aphids and Rosy apple aphids.	
<p><b>Note:</b> Do not feed pomace from treated Apples to livestock. Do not feed cull fruits to animals or allow livestock to graze in treated orchards. Do not make more than 2 applications during the fruiting period. Do not make more than 3 applications per year. Do not exceed a maximum of 2.5 lbs. of active ingredient (i.e., 3.33 qts.) per acre per season. For airblast application, the use of a closed cab is required. Exception for airblast application to Apples: When application using enclosed cab airblast equipment is not feasible in Apple orchards, applicators are permitted to use open cab airblast equipment PROVIDED they are wearing chemical-resistant headgear AND maximum PPE clothing (i.e., baseline clothing plus organic vapor respirator, coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, chemical-resistant shoes plus socks, and goggles or face shield). For aerial application, the use of a closed mixing/loading system is required.</p>		
Apricots (21), Nectarines (21), Peaches (21) (Except CA)	Peachtree borers, Lesser peachtree borers	1 qt. per 100 gals. or 2.66 to 3.33 qts. per acre Pacific Northwest: 0.66 to 1 qt. per 100 gals. Southeastern States: 2 to 3.33 qts. per 100 gals.
REI = 2 days	SPECIFIC DIRECTIONS: Best control is obtained with a single application post-harvest. Spray all bark areas from ground level to lower scaffold limbs.	
<p><b>Note:</b> Do not feed cull fruits to animals or allow livestock to graze in treated orchards. Do not make more than 2 applications per year. Do not exceed 2.5 lbs. of active ingredient (i.e., 3.33 qts.) per acre per season. For airblast application, the use of a closed cab is required. For aerial application, the use of a closed mixing/loading system is required.</p>		
Apricots (30), Nectarines (30), Peaches (30) (Except CA)	Aphids (including Black cherry aphids, Black peach aphids, Green peach aphids, Rusty plum aphids), Catfacing insects (Stink bug type), Green fruitworms, Peach silver mites, Peach twig borers	0.66 qt. per 100 gals. or a maximum of 3.33 qts. per acre
REI = 2 days	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
<p><b>Note:</b> Do not feed cull fruits to animals or allow livestock to graze in treated orchards. Do not make more than 2 applications per year. Do not exceed 2.5 lbs. of active ingredient (i.e., 3.33 qts.) per acre per season. For airblast application, the use of a closed cab is required. For aerial application, the use of a closed mixing/loading system is required.</p>		
Apricots (30), Nectarines (30), Peaches (30) (CA only)	Aphids (including Black cherry aphids, Black peach aphids, Green peach aphids, Rusty plum aphids), Catfacing insects (Stink bug type), Peach silver mites, Peach twig borers	0.66 qt. per 100 gals. or a maximum of 3.33 qts. per acre
REI = 2 days	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
<p><b>Note:</b> Do not feed cull fruits to animals or allow livestock to graze in treated orchards. Do not make more than 2 applications per year. Do not exceed 2.5 lbs. of active ingredient (i.e., 3.33 qts.) per acre per season. For airblast application, the use of a closed cab is required. For aerial application, the use of a closed mixing/loading system is required.</p>		

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Crop	Pests	Rate of Application
Beans (Dry) (3) Peas (Dry) (3) (Except CA)	Black bean aphids, Bean leaf skeletonizers, Cowpea curculios, Cucumber beetles, Flea beetles, Green stink bugs, Leafhoppers, Mexican bean beetles	0.66 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. For control of Cowpea curculios, make 3 applications at 5-day intervals starting when the pods are 0.5 inch long.	
	Aphids, Armyworms, Western bean cutworms, Whiteflies	1.33 qts. per acre
REI = 2 days	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. For control of Cowpea curculios, make 3 applications at 5-day intervals starting when the pods are 0.5 inch long.	
<b>Note:</b> Do not feed treated vines or threshings or allow livestock to graze in treated fields. Do not use on Lima beans that are to be removed from the field for processing. For Dried beans and Dried peas, do not make more than 2 applications per season and do not exceed 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season. Use is limited to Peas harvested by combine only.		
Beans (Dry) (3) Peas (Dry) (3) (CA Only)	Black bean aphids, Bean leaf skeletonizers, Cucumber beetles, Flea beetles, Green stink bugs, Leafhoppers, Mexican bean beetles	0.66 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Aphids, Western bean cutworms, Whiteflies	1.33 qts. per acre
REI = 2 days	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
<b>Note:</b> Do not feed treated vines or threshings or allow livestock to graze in treated fields. Do not use on Lima beans that are to be removed from the field for processing. For Dried beans and Dried peas, do not make more than 2 applications per season and do not exceed 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season. Use is limited to Peas harvested by combine only.		
Blueberries (Except CA)	Blueberry bud mites	2 qts. per acre per 300 gals. of water
REI = 6 days	SPECIFIC DIRECTIONS: Apply immediately after harvest and repeat 6 to 8 weeks later.	
<b>Note:</b> Do not apply after buds are well-formed. Do not make more than 2 applications per year. Do not exceed 1.5 lbs. of active ingredient (i.e., 2 qts.) per acre per season. For aerial application the use of a closed mixing/loading system is required.		
Broccoli (7), Brussels sprouts (14), Cabbage (7), Cauliflower (14) (Except CA)	Cabbage aphids, Cabbage loopers, Cross-striped cabbageworms, Diamondback moths (larvae), Flea beetles, Harlequin bugs, Imported cabbageworms, Leafhoppers, Stink bugs	1 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Armyworms, Cutworms, Whiteflies	1.33 qts. per acre
REI = 4 days	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
<b>Note:</b> Do not make more than 2 applications per season. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season		
Broccoli (7), Brussels sprouts (14), Cabbage (7), Cauliflower (14) (CA Only)	Cabbage aphids, Cabbage loopers, Cross-striped cabbageworms, Diamondback moths (larvae), Flea beetles, Harlequin bugs, Imported cabbageworms, Stink bugs	1 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Armyworms, Cutworms, Whiteflies	1.33 qts. per acre
REI = 4 days	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
<b>Note:</b> Do not make more than 2 applications per season. Do not exceed a maximum of 2.0 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season.		
Carrots (7) (Except CA)	Green peach aphids, Leafhoppers	0.66 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.	
REI = 2 days		

Crop	Pests	Rate of Application
Carrots (7) (Except CA)	Armyworms, Flea beetles, Whiteflies	1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.	
REI = 2 days		
<b>Note:</b> Do not use tops for food or feed. Do not make more than 1 application per year. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season.		
Carrots (7) (CA Only)	Green peach aphids	0.66 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.	
REI = 2 days	Flea beetles, Whiteflies	1.33 qts. per acre
<b>Note:</b> Do not use tops for food or feed. Do not make more than 1 application per year. Do not exceed a maximum of 1 lb. of active ingredient (i.e., 1.33 qts.) per acre per year.		
Celery (4) (Except CA)	Green peach aphids, Cabbage loopers, Leafhoppers	0.66 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.	
	Armyworms, Flea beetles, Whiteflies	1.33 qts. per acre
REI = 2 days	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.	
<b>Note:</b> Do not make more than 1 application per year. Do not exceed a maximum of 1 lb. of active ingredient (i.e., 1.33 qts.) per acre per season.		
Celery (7) (Except CA)	Green peach aphids	0.66 qt. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
REI = 2 days		
<b>Note:</b> Do not make more than 2 applications per year. Do not exceed a maximum of 1 lb. of active ingredient (i.e., 1.33 qts.) per acre per season.		
Celery (4) (CA Only)	Green peach aphids, Cabbage loopers	0.66 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.	
	Flea beetles, Whiteflies	1.33 qts. per acre
REI = 2 days	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.	
<b>Note:</b> Do not make more than 1 application per year. Do not exceed a maximum of 1 lb. of active ingredient (i.e., 1.33 qts.) per acre per season.		
Celery (7) (CA Only)	Green peach aphids	0.66 qt. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
REI = 2 days		
<b>Note:</b> Do not make more than 2 applications per year. Do not exceed a maximum of 1 lb. of active ingredient (i.e., 1.33 qts.) per acre per season.		
Cherries (21) (Except CA)	Peachtree borers, Lesser peachtree borers	1 qt. per 100 gals. or 2.66 to 3.33 qts. per acre Pacific Northwest: 0.66 to 1 qt. per 100 gals.
	SPECIFIC DIRECTIONS: Best control is obtained with a single application post-harvest after leaves have dropped. Spray all bark areas from ground level to lower scaffold limbs.	
	Black cherry aphids, Green fruitworms, Plum rust (Nursery) mites	0.66 qt. per 100 gals. or 2.66 to 3.33 qts. per acre
SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.		
<b>Pacific Northwest only:</b> Eye-spotted bud moths, Fruitree leafrollers		
		0.65 qt. per 100 gals. or 2.66 to 3.33 qts. per acre
SPECIFIC DIRECTIONS: For Bud moth control, apply at popcorn stage. For Leafroller control, apply during pre-pink stage of growth.		
<b>MI Only:</b> Mineola moths		1.33 qts. per 100 gals.
REI = 2 days	SPECIFIC DIRECTIONS: Apply in the delayed dormant period. Do not apply more than 2.5 lbs. of active ingredient (3.33 qts. of this product) per acre per application.	
<b>Note:</b> Do not feed cull fruits to animals or allow livestock to graze in treated orchards. Do not make more than 2 applications per year. Do not exceed a maximum of 2.5 lbs. of active ingredient (i.e., 3.33 qts.) per acre per season. For aerial application, the use of a closed mixing/loading system is required. For airblast application, the use of a closed cab is required.		



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Crop	Pests	Rate of Application
Cherries (21) (CA Only)	Black cherry aphids, Plum rust (Nursery) mites	0.66 qt. per 100 gals. or 2.66 to 3.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Eyespotted bud moths, Fruittree leafrollers	0.66 qt. per 100 gals. or 2.66 to 3.33 qts. per acre
	SPECIFIC DIRECTIONS: For Bud moth control, apply at popcorn stage. For Leafroller control, apply during pre-pink stage of growth.	
REI = 2 days		
<b>Note:</b> Do not feed cull fruits to animals or allow livestock to graze treated orchards. Do not make more than 2 applications per year. Do not exceed a maximum of 2.5 lbs. of active ingredient (i.e., 3.33 qts.) per acre per season. For aerial application, the use of a closed mixing/loading system is required. For airblast application, the use of a closed cab is required.		
Citrus (Non-bearing trees and Nursery stock) (Including CA)	Citrus aphids	0.66 qt. per 100 gals. or a maximum of 3.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
REI = 2 days		
<b>Note:</b> Do not apply to bearing trees or trees that will bear fruit within 12 months. Do not make more than 2 applications per year. Do not exceed a maximum of 2.5 lbs. of active ingredient (i.e., 3.33 qts.) per acre per season. For aerial application the use of a closed mixing/loading system is required.		
Collards (21) (Except CA)	Aphids, Cabbage loopers, Diamond-back moths (larvae), Fall armyworms, Flea beetles, Harlequin bugs, Imported cabbageworms, Leafhoppers	1 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.	
	Whiteflies	1.33 qts. per acre
REI = 2 days		
<b>Note:</b> Do not make more than 1 application per year. Do not exceed a maximum of 1 lb. of active ingredient (i.e., 1.33 qts.) per acre per season.		
Collards (21) (CA Only)	Aphids, Cabbage loopers, Diamondback moths (larvae), Flea beetles, Harlequin bugs, Imported cabbageworms, Whiteflies	1 qt. per acre
	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.	
REI = 2 days		
<b>Note:</b> Do not make more than 1 application per year. Do not exceed a maximum of 0.75 lb. of active ingredient (i.e., 1 qt.) per acre per season.		
Cotton (AZ, NM, OK, and TX only)	Aphids	Ground: 0.5 to 1 qt. per acre Air: 1 qt. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. Thorough coverage is important.	
	Boll weevils	Ground: 0.66 to 2 qts. per acre Air: 1 qt. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Bollworms, Cabbage loopers, Cotton leafperforators, Cotton leafworms, Fleahoppers, Lygus bugs, Stink bugs, Tobacco budworms	Ground: 1.33 to 2 qts. per acre Air: 1 qt. per acre
SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.		
(Continued)		

Crop	Pests	Rate of Application
Cotton (Cont.) (AZ, NM, OK, and TX only)	Whiteflies	Ground: 1.33 qts. per acre Air: 1 qt. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Thrips	Ground: 2 qts. per acre Air: 1 qt. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
REI = 2 days		
<b>Note:</b> Applications may be made using ground or aerial application equipment. The higher rate should be used under heavy pest pressure. Do not apply after bolls open. Do not graze dairy or meat animals in treated fields. Do not make more than 2 applications per season. For ground application, do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season. For aerial application, do not exceed 1.5 lbs. of active ingredient (i.e., 2 qts.) per acre per season. For aerial application the use of a closed mixing/loading system is required. Only mechanical harvesting is permitted. Hand thinning/pruning is prohibited.		
Cotton (CA Only)	Aphids	Ground: 0.5 to 1 qt. per acre Air: 1 qt. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. Thorough coverage is important.	
	Boll weevils	Ground: 0.66 to 2 qts. per acre Air: 1 qt. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Bollworms, Cabbage loopers, Cotton leafperforators, Fleahoppers, Lygus bugs, Stink bugs	Ground: 1.33 to 2 qts. per acre Air: 1 qt. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Whiteflies	Ground: 1.33 qts. per acre Air: 1 qt. per acre
SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.		
Cotton (CA Only)	Thrips	Ground: 2 qts. per acre Air: 1 qt. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	REI = 2 days	
<b>Note:</b> Applications may be made using ground or aerial application equipment. The higher rate should be used under heavy pest pressure. Do not apply after bolls open. Do not graze dairy or meat animals in treated fields. Do not make more than 2 applications per season. For ground application, do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season. For aerial application, do not exceed 1.5 lbs. of active ingredient (i.e., 2 qts.) per acre per season. For aerial application the use of a closed mixing/loading system is required. Only mechanical harvesting is permitted. Hand thinning/pruning is prohibited.		

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Crop	Pests	Rate of Application
Cucumbers (2), Melons (2), Pumpkins (2), Summer and Winter squash (2) (Except CA)	Aphids, Cucumber beetles, Melonworms, Pickleworms, Rindworms (on Watermelons), Squash beetles, Squash bugs, Squash vine borers, Striped flea beetles	0.66 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. For Squash vine borer control, apply weekly to flower buds, stems and vines beginning when moths first appear.	
	Cabbage loopers, Omnivorous leafrollers, Whiteflies	1.33 qts. per acre
REI = 2 days	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
<b>Note:</b> Do not make more than 4 applications per season. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season.		
Cucumbers (2), Melons (2), Pumpkins (2), Summer and Winter squash (2) (CA Only)	Aphids, Cucumber beetles, Melonworms, Pickleworms, Rindworms (on Watermelons), Squash beetles, Squash bugs, Squash vine borers, Striped flea beetles	0.66 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. For Squash vine borer control, apply weekly to flower buds, stems and vines beginning when moths first appear.	
	Cabbage loopers, Omnivorous leafrollers, Whiteflies	1.33 qts. per acre
REI = 2 days	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
<b>Note:</b> Do not make more than 3 applications per season. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season.		
Eggplant (1) (Except CA)	Blister beetles, Colorado potato beetles, Flea beetles, Green peach aphids, Green stink bugs	0.66 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Whiteflies	1.33 qts. per acre
REI = 2 days	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
<b>Note:</b> Do not make more than 2 applications per year. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season.		
Eggplant (1) (CA Only)	Blister beetles, Colorado potato beetles, Flea beetles, Green peach aphids, Green stink bugs	0.66 to 1.33 pts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Whiteflies	1.33 pts. per acre
REI = 2 days	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
<b>Note:</b> Do not make more than 2 applications per year. Do not exceed a maximum of 0.5 lb. of active ingredient (i.e., 1.33 pts.) per acre per season.		
Kale (21) (Including CA)	Cabbage flea beetles, Harlequin bugs, Imported cabbageworms	1 qt per acre
	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.	
REI = 2 days		
<b>Note:</b> Do not make more than 1 application per year. Do not exceed a maximum of 0.75 lb. of active ingredient (i.e., 1 qt.) per acre per season.		
Lettuce (14) (Except CA)	Cabbage loopers, Diamondback moths (larvae), Green peach aphids, Imported cabbageworms, Leafhoppers	1 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Amyworms, Whiteflies	1.33 qts. per acre
REI = 2 days	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
<b>Note: On Head lettuce</b> - Do not make more than 2 applications per season. Remove wrapper leaves at harvest. <b>On Leaf lettuce</b> - Do not make more than 2 applications per season. Do not feed crop refuse to livestock. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season.		

Crop	Pests	Rate of Application	
Lettuce (14) (CA Only)	Cabbage loopers, Diamondback moths (larvae), Green peach aphids, Imported cabbageworms	1 to 1.33 qts. per acre	
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.		
	Whiteflies	1.33 qts. per acre	
REI = 2 days	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.		
<b>Note: On Head lettuce</b> - Do not make more than 2 applications per season. Remove wrapper leaves at harvest. <b>On Leaf lettuce</b> - Do not make more than 2 applications per season. Do not feed crop refuse to livestock. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season.			
Mustard greens (21) (Except CA)	Aphids, Cabbage loopers, Diamondback moths (larvae), Fall armyworms, Flea beetles, Harlequin bugs, Imported cabbageworms, Leafhoppers	1 to 1.33 qts. per acre	
	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.		
	Whiteflies	1.33 qts. per acre	
REI = 2 days	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.		
<b>Note:</b> Do not make more than 1 application per year. Do not exceed a maximum of 1 lb. of active ingredient (i.e., 1.33 qts.) per acre per season.			
Mustard greens (21) (CA Only)	Aphids, Cabbage loopers, Diamondback moths (larvae), Flea beetles, Harlequin bugs, Imported cabbageworms, Whiteflies	1 qt. per acre	
	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.		
REI = 2 days			
<b>Note:</b> Do not make more than 1 application per year. Do not exceed a maximum of 0.75 lb. of active ingredient (i.e., 1 qt.) per acre per season.			
Pears (7) (Except CA)	Green fruitworms, Tarnished plant bugs	0.66 qt. per 100 gals. or 2.66 to 3.33 qts. per acre	
	SPECIFIC DIRECTIONS: Make applications at white bud or petal fall when insects appear or feeding is noticed.		
	Pear psylla	3.33 qts. per acre	
REI = 2 days	SPECIFIC DIRECTIONS: Apply in a minimum of 10 gals. of water for aerial application or in 300 gals. of water for dilute application. Apply when adults are first observed or nymphs are small and repeat to maintain control.		
	Pear rust mites, Conspere stink bugs (Foliar treatment)	0.66 qt. per 100 gals. or 2.66 to 3.33 qts. per acre	
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. Stink bugs must be wet by spray to obtain control.		
REI = 2 days	Conspere stink bugs (Soil treatment)	0.66 qt. per 100 gals. or 200 to 400 gals. per acre	
	SPECIFIC DIRECTIONS: Apply to orchard floor and around trees prior to bloom.		
	Pear leaf blister mites	0.33 to 0.66 qt. per 100 gals. or 2.66 to 3.33 qts. per acre	
REI = 2 days	SPECIFIC DIRECTIONS: Apply to trees as a post-harvest or dormant treatment. Do not apply more than 2.5 lbs. of active ingredient (3.33 qts. of this product) per acre per application.		
	<b>Note:</b> Do not feed cull fruits to animals or allow livestock to graze in treated orchards. Do not make more than 2 applications per year. Do not exceed a maximum of 2.5 lbs. of active ingredient (i.e., 3.33 qts.) per acre per season. Aerial application may not result in satisfactory control and should only be employed if impossible to apply by ground. For aerial application the use of a closed mixing/loading system is required. For airblast application, the use of a closed cab is required. Exception for airblast application to Pears (OR, WA, and ID only): When application using enclosed cab airblast equipment is not feasible in Pear orchards, applicators are permitted to use open cab airblast equipment PROVIDED they are wearing chemical-resistant headgear AND maximum PPE clothing (i.e., baseline clothing plus organic vapor respirator, coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, chemical-resistant shoes plus socks and goggles or face shield).		

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Crop	Pests	Rate of Application
Pears (7) (CA Only)	Pear psylla	3.33 qts. per acre
	SPECIFIC DIRECTIONS: Apply in a minimum of 10 gals. of water for aerial application or in 300 gals. of water for dilute application. Apply when adults are first observed or nymphs are small and repeat to maintain control.	
	Pear rust mites, Conspere stink bugs (Foliar treatment)	0.66 qt. per 100 gals. or 2.66 to 3.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. Stink bugs must be wet by spray to obtain control.	
	Conspere stink bugs (Soil treatment)	0.66 qt. per 100 gals. or 200 to 400 gals. per acre
	SPECIFIC DIRECTIONS: Apply to orchard floor and around trees prior to bloom.	
	Pear leaf blister mites	0.33 to 0.66 qt. per 100 gals. or 2.66 to 3.33 qts. per acre
	SPECIFIC DIRECTIONS: Apply to trees as a post-harvest or dormant treatment. Do not apply more than 2.5 lbs. of active ingredient (3.33 qts. of this product) per acre per application.	
REI = 2 days		
<b>Note:</b> Do not feed cull fruits to animals or allow livestock to graze in treated orchards. Do not make more than 2 applications per year. Do not exceed a maximum of 2.5 lbs. of active ingredient (i.e., 3.33 qts.) per acre per season. Aerial application may not result in satisfactory control and should only be employed if impossible to apply by ground. For aerial application, the use of a closed mixing/loading system is required. For airblast application, the use of a closed cab is required. Exception for airblast application to Pears (OR, WA, and ID only): When application using enclosed cab airblast equipment is not feasible in Pear orchards, applicators are permitted to use open cab airblast equipment PROVIDED they are wearing chemical-resistant headgear AND maximum PPE clothing (i.e., baseline clothing plus organic vapor respirator, coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, chemical-resistant shoes plus socks and goggles or face shield).		
Peppers (4) (Except CA)	Armyworms, Flea beetles, Green peach aphids, Hornworms, Leafhoppers, Pepper maggots	0.66 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.	
	Whiteflies	1.33 qts. per acre
REI = 2 days	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.	
<b>Note:</b> Do not make more than 2 applications per year. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season.		
Peppers (4) (CA Only)	Flea beetles, Green peach aphids, Hornworms, Pepper maggots	0.66 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.	
	Whiteflies	1.33 qts. per acre
REI = 2 days	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.	
<b>Note:</b> Do not make more than 2 applications per year. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season.		
Pineapple (7) Fresh Market Only (CA Only)	Pineapple fruit mites	2 to 2.66 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. Apply at intervals of 7 to 10 days, if necessary, particularly during the 40-day blooming period.	
REI = 2 days		
<b>Note:</b> Do not feed forage or Pineapple by-products to livestock. Do not make more than 2 applications per year. Do not exceed a maximum of 3 lbs. of active ingredient (i.e., 4 qts.) per acre per season.		

Crop	Pests	Rate of Application	
Plums (7), Prunes (7) (Except CA)	Fruittree leafrollers (Pacific Northwest Only)	0.66 qt. per 100 gals. or 2.66 to 3.33 qts. per acre	
	SPECIFIC DIRECTIONS: Apply during pre-pink stage of growth when insects appear or feeding is noticed.		
	Aphids (including Hop aphids, Leafcurl aphids, Thistle aphids), Plum rust (Nursery) mites	0.66 qt. per 100 gals. or 2.66 to 3.33 qts. per acre	
	SPECIFIC DIRECTIONS: For control of Aphids, apply when eggs hatch during pre-bloom or petal fall. Summer applications should be made before leaves curl.		
	Peach twig borers	0.66 qt. per 100 gals. or 2.66 to 3.33 qts. per acre	
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.		
	Lesser peachtree borers, Peachtree borers	1 qt. per 100 gals. or 2.66 to 3.33 qts. per acre <b>Pacific Northwest:</b> 0.66 to 1 qt. per 100 gals. or 2.66 to 3.33 qts. per acre	
	SPECIFIC DIRECTIONS: Best control is obtained with a single application post-harvest, after leaves have dropped. Spray all bark areas from ground to lower scaffold limbs.		
	REI = 2 days		
	<b>Note:</b> Do not allow livestock to graze on orchard crops or grasses in treated areas. Do not make more than 2 applications per year. Do not exceed a maximum of 2.5 lbs. of active ingredient (i.e., 3.33 qts.) per acre per season. For aerial application, the use of a closed mixing/loading system is required. For airblast application, the use of a closed cab is required.		
Plums (7), Prunes (7) (CA Only)	Fruittree leafrollers (Pacific Northwest Only)	0.66 qt. per 100 gals. or 2.66 to 3.33 qts. per acre	
	SPECIFIC DIRECTIONS: Apply during pre-pink stage of growth when insects appear or feeding is noticed.		
	Aphids (including Hop aphids, Leafcurl aphids, Thistle aphids), Plum rust (Nursery) mites	0.66 qt. per 100 gals. or 2.66 to 3.33 qts. per acre	
	SPECIFIC DIRECTIONS: For control of Aphids, apply when eggs hatch during pre-bloom or petal fall. Summer applications should be made before leaves curl.		
	Peach twig borers	0.66 qt. per 100 gals. or 2.66 to 3.33 qts. per acre	
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.		
	Lesser peachtree borers, Peachtree borers	0.66 to 1 qt. per 100 gals. or 2.66 to 3.33 qts. per acre	
	SPECIFIC DIRECTIONS: Best control is obtained with a single application post-harvest, after leaves have dropped. Spray all bark area from ground level to lower scaffold limbs.		
	REI = 2 days		
	<b>Note:</b> Do not allow livestock to graze on orchard crops or grasses in treated areas. Do not make more than 2 applications per year. Do not exceed a maximum of 2.5 lbs. of active ingredient (i.e., 3.33 qts.) per acre per season. For aerial application the use of a closed mixing/loading system is required. For airblast application, the use of a closed cab is required.		
Potatoes (1) (Except CA)	Aphids, Armyworms, Colorado potato beetles, Green stink bugs, Leaffooted bugs, Plant bugs, Potato flea beetles, Potato leafhoppers, Potato tuber-worms, Threelined potato beetles	0.66 to 1.33 qts. per acre	
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.		
	European corn borers, Potato psyllids	1 to 1.33 qts. per acre	
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.		
	False chinch bugs, Whiteflies	1 to 1.33 qts. per acre	
REI = 2 days	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.		
<b>Note:</b> Do not make more than 4 applications per season. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season. CHEMIGATION: For application by irrigation systems, apply the specified amount of this product per acre. Follow all directions given under the "CHEMIGATION USE INSTRUCTIONS" section of this label.			

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Crop	Pests	Rate of Application
Potatoes (1) (CA only)	Aphids, Armyworms, Colorado potato beetles, Green stink bugs, Leafhoppers, Plant bugs, Potato flea beetles, Potato leafhoppers, Potato tuber-worms, Threelined potato beetles	0.66 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	European corn borers, Potato psyllids	1 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	False chinch bugs, Whiteflies	1 to 1.33 qts. per acre
SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.		
REI = 2 days		
<b>Note:</b> Do not make more than 4 applications per season. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season. Chemigation using endosulfan is NOT permitted in California.		
Strawberries (4) (Including CA)	Meadow spittlebugs, Strawberry aphids, Tarnished plant bugs, Whiteflies	1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. Do not reapply within 15 days or more than twice during a 35-day period when fruit is present.	
	Cyclamen mites	1.33 qts. per acre in 400 gals.
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. Thoroughly wet the foliage, stem and crown of the plant. For multiple applications, do not apply at intervals less than 35 days when fruit is present.	
REI = 2 days		
<b>Note:</b> Do not make more than 2 applications per season. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season. For aerial application the use of a closed mixing/loading system is required.		
Sweet corn (1) (Fresh Vegetable Use Only) (Including CA)	Corn leaf aphids, Whiteflies	1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.	
	Corn earworms	2 qts. per acre
REI = 17 days		
<b>Note:</b> Do not apply to Sweet corn to be processed. Do not feed treated forage or ensilage to livestock or allow livestock to graze in treated fields. Do not make more than 1 application per season. Do not exceed a maximum of 1.5 lbs. of active ingredient (i.e., 2 qts.) per acre per season. For aerial application the use of a closed mixing/loading system is required.		

Crop	Pests	Rate of Application
Sweet potatoes (1) (Except CA)	Sweet potato flea beetles, Sweet potato weevils	0.66 qt. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. For Flea beetle control, begin applications shortly after transplanting or as soon as Flea beetles appear. For Sweet potato weevil control, apply in sufficient water for complete coverage. Applications may be made to transplants in the nursery and/or in the field. Repeat applications may be made as necessary. For Sweet potato weevil control in a clean-up program, apply at a rate of 2.66 qts. per acre to the soil under the Sweet potato nursery beds and the area immediately surrounding the nursery beds. Do not place the seed tubers directly on the ground treated with this product.	
	Whiteflies	1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insect activity or feeding is noticed.	
	Banded cucumber beetles (larvae) - (Aids in control) (South Central states and Puerto Rico Only)	1.33 to 2.66 qts. per acre broadcast or 0.5 to 1 qt. per acre on a 16" band over the row (48" row spacing)
SPECIFIC DIRECTIONS: Work into the soil to a depth of approximately 3 inches. Treatment should be made just prior to plant set.		
REI = 3 days		
<b>Note:</b> Do not feed cull Potatoes to livestock or allow livestock to graze in treated fields. Do not make more than 2 applications per season. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season. For aerial application the use of a closed mixing/loading system is required.		
Sweet potatoes (1) (CA Only)	Sweet potato flea beetles, Sweet potato weevils	0.66 qt. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. For Flea beetle control, begin applications shortly after transplanting or as soon as Flea beetles appear. For Sweet potato weevil control, apply in sufficient water for complete coverage. Applications may be made to transplants in the nursery and/or in the field. Repeat applications may be made as necessary.	
REI = 3 days		
<b>Note:</b> Do not feed cull Potatoes to livestock or allow livestock to graze in treated fields. Do not make more than 3 applications per season. Do not exceed a maximum of 1.5 lbs. of active ingredient (i.e., 2 qts.) per acre per season. For aerial application the use of a closed mixing/loading system is required.		
Tobacco (5) (IN, KY, OH, PA, TN, and WV only)	Aphids (including Green peach aphids, Tobacco aphids), Budworms, Cabbage loopers, Flea beetles, Hornworms	<b>Seed Bed:</b> 0.66 qt. per 100 gals.
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. Apply approximately 6 gals. of finished spray per 100 sq. yds.	
	Green June bugs (larvae)	<b>Plant Bed:</b> 0.66 pt. per 100 gals.
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. Drench at a rate of 1 gal. per sq. yd.	
	Aphids (including Green peach aphids, Tobacco aphids), Budworms, Cabbage loopers, Flea beetles, Green June bugs (larvae), Hornworms	<b>Field:</b> 0.66 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insect activity or feeding is noticed.	
	Stink bugs	<b>Field:</b> 0.66 qt. per 100 gals.
	SPECIFIC DIRECTIONS: Make applications when insect activity or feeding is noticed.	
REI = 2 days		
<b>Note:</b> Do not make more than 2 applications per season. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season.		

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**COMMERCIALLY GROWN ORNAMENTALS  
GROWN OUTDOORS IN NURSERIES ONLY**

**Ornamental Trees and Shrubs (REI = 2 days)**

**Use Restriction:** Do not apply more than 2.5 lbs. a.i. (3.33 qts. of this product) per acre per application on ornamental trees and shrubs.

Crop	Pests	Rate of Application
Tomatoes (2) (Field and Greenhouse) (Except CA)	Aphids, Blister beetles, Colorado potato beetles, Flea beetles, Tomato hornworms	0.66 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Cabbage loopers, Slink bugs	1 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Tomato fruitworms, Tomato russet mites, Whiteflies, Yellowstriped armyworms	1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Whiteflies	Use 0.66 qt. per 100 gals. of water. Use 100 to 200 gals. of spray per acre.
SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. Higher spray volumes may be necessary for thorough coverage when high Whitefly populations exist.		
REI = 2 days		
<b>Note:</b> Do not make more than 4 applications per season. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season.		
Tomatoes (2) (Field and Greenhouse) (CA Only)	Aphids, Blister beetles, Colorado potato beetles, Flea beetles, Tomato hornworms, Webworms	0.66 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Cabbage loopers, Stink bugs	1 to 1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Tomato fruitworms, Tomato russet mites, Whiteflies, Yellowstriped armyworms	1.33 qts. per acre
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
	Whiteflies	Use 0.66 qt. per 100 gals. of water. Use 100 to 200 gals. of spray per acre.
SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. Higher spray volumes may be necessary for thorough coverage when high Whitefly populations exist.		
REI = 2 days		
<b>Note:</b> Do not make more than 4 applications per season. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season.		
Walnuts (Except CA)	Walnut aphids	2 to 2.66 qts. per acre. Apply in a minimum of 100 gals. of water per acre.
	SPECIFIC DIRECTIONS: Make application when insects appear or feeding is noticed.	
REI = 2 days		
<b>Note:</b> Do not apply after husk split. Do not graze livestock on orchard crops or grasses in treated areas. Do not make more than 1 application per season. Do not exceed a maximum of 2 lbs. of active ingredient (i.e., 2.66 qts.) per acre per season. For aerial application the use of a closed mixing/loading system is required. For airblast application, the use of a closed cab is required.		

Crop	Pests	Rate of Application
Dogwood, Lilac (Except CA)	Dogwood borers, Lilac borers	0.6 qt. (1.25 pts.) per 100 gals.
	SPECIFIC DIRECTIONS: Apply in early June and repeat in 10 to 14 days. Drench all bark areas down to the ground level.	
<b>Note:</b> Do not exceed a maximum of 3 lbs. of active ingredient (i.e., 4 qts.) per acre per year.		
Douglas fir (Grown for Ornamentals, Nursery Stock or Christmas Trees) (Pacific Northwest Only) (Including CA)	Aphids, Cooley spruce gall adelgids, Douglas-fir needle midges	0.66 qt. per 100 gals. (1.33 tsps. per gal.)
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed. For control of Gall adelgids, apply when white cottony tufts appear. For control of Needle midges, apply in late April or early May just before buds open.	
<b>Note:</b> Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides. Do not exceed a maximum of 3 lbs. of active ingredient (i.e., 4 qts.) per acre per year.		
Leatherleaf fern (Leather Holy fern) (Except California)	Leatherleaf Fern Borer	1.33 pints per 100 gals. of water (1.33 tsps. per gal.)
	SPECIFIC DIRECTIONS: Begin treatment when first larval feeding is observed in the mid-vein area at the base of the leaflets. Repeat at 2 to 3 week intervals as necessary.	
<b>Note:</b> Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides. Do not exceed a maximum of 3 lbs. of active ingredient (8 pints of this product) per acre per year. Do not use in greenhouses. Do not apply this product through any type of irrigation system.		
Pines (Austrian, Jack, Red, Scotch, White) (Except CA)	Zimmerman pine moths	0.6 qt. (1.25 pts.) per 100 gals.
	SPECIFIC DIRECTIONS: Apply in mid-April and again, if necessary, in late Fall. Thoroughly wet bark and main stem, especially where branches join main stem.	
<b>Note:</b> Do not exceed a maximum of 3 lbs. of active ingredient (i.e., 4 qts.) per acre per year.		
Shade trees (Except Birch), Shrubs (Including CA)	Aphids	0.66 qt. per 100 gals. (1.33 tsps. per gal.)
	SPECIFIC DIRECTIONS: Make applications when insects appear or feeding is noticed.	
<b>Note:</b> Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides. Do not exceed a maximum of 3 lbs. of active ingredient (i.e., 4 qts.) per acre per year.		
Spruce (New England Area Only)	Spruce gall aphids	0.66 qt. per 100 gals. (1.33 tsps. per gal.)
	SPECIFIC DIRECTIONS: Apply in late April or early May when Aphids are present but before galls are formed.	
<b>Note:</b> Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides. Do not exceed a maximum of 3 lbs. of active ingredient (i.e., 4 qts.) per acre per year.		
Taxus (Except CA)	Taxus bud mites	0.66 qt. per 100 gals. (1.33 tsps. per gal.)
	SPECIFIC DIRECTIONS: Make 3 to 5 applications beginning in mid-May. Thoroughly spray foliage, twigs and bark.	
	Black vine weevils	1.33 qt. per 100 gals. (2.63 tsps. per gal.)
SPECIFIC DIRECTIONS: Spray thoroughly and drench soil under the plants. Apply when the Weevils first appear and repeat in 14 days.		
<b>Note:</b> Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides. Do not exceed a maximum of 3 lbs. of active ingredient (i.e., 4 qts.) per acre per year.		

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### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Do not store in or around the home. Do not store below 20°F (-7°C). Do not use or store near heat, open flame or hot surfaces. Keep out of reach of children and animals. Store in original containers only. Store in cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or diluted material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage and disposal. In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:**

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**Nonrefillable Container (rigid material; less than 5 gallons):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container 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 one-fourth 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. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Nonrefillable Container (rigid material; 5 gallons or greater):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Refillable Containers:**

Refillable container. Refill this container with this product only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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### WARRANTY—CONDITIONS OF SALE

OUR DIRECTIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

To the extent consistent with applicable law, the Manufacturer or the Seller shall not be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with the directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

NOTIFICATION

MAY 15 2009

