



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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

May 30, 2012

Helena Chemical Company
225 Schilling Blvd., Suite 300
Collierville, Tennessee 38017
Attn: Bill Washburn

Subject: Notification – to add Alternate Brand Name per PR Notice 98-10
Product Brand Name: Armicarb 100
Alternate Brand Name: Eco-Mate Armicarb O.
EPA Reg. No. 5905-541

Dear Mr. Washburn:

The Biopesticides and Pollution Prevention Division is in receipt of your application for Notification under Pesticide Registration Notice (PRN) 98-10 dated above. A screen of this request has been conducted for its applicability under PRN 98-10, and it has been determined that the action(s) requested falls within the scope of this Notice. Our records have been duly noted, and the label submitted with this application has been stamped "Notification Accepted" and will be placed accordingly in our records.

Three (3) copies of final printed labeling must be submitted to the Agency before your product as modified, may be sold or distributed [PR Notice 82-2 and 40 CFR 156.10(a) (6)].

If you have any questions regarding this action, you may contact Mr. Sylvester George at (703) 603-0688 or via e-mail at george.sylvester@epa.gov.

Sincerely,

Linda A. Hollis

Linda A. Hollis, Chief
Biochemical Pesticide Branch
Biopesticides and Pollution
Prevention Division (7511P)

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 05-31-98



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other:

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 5905-541	2. EPA Product Manager Linda Hollis	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) ARMICARB 100	PM# Biochemical Pesticides	
5. Name and Address of Applicant (Include ZIP Code) HELENA CHEMICAL COMPANY 225 SCHILLING BOULEVARD, SUITE 300 COLLIERVILLE, TN 38017 <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. _____ Product Name _____ Notification Accepted	

Section - II

Date: May 30, 2012
Reviewer: Sylvester George

- Amendment - Explain below.
- Resubmission in response to Agency letter dated _____
- Notification - Explain below.
- Final printed labels in response to Agency letter dated _____
- "Me Too" Application
- Other - Explain below

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

Notification of the Alternate Brand Name, "ECO-MATE ARMICARB O" per PR Notice 98-10. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
*Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify)	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product	
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 Bill Washburn	Title Registration Specialist	Telephone No. (Include Area Code) 901-752-4420
Certification 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 (Stamped)
2. Signature <i>Bill Washburn</i>	3. Title Registration Specialist	
4. Typed Name Bill Washburn	5. Date 05/21/2012	



HELENA CHEMICAL COMPANY
225 Schilling Blvd., Suite 300
Collierville, Tennessee 38017
Telephone: 901-761-0050

May 21, 2012

Ms. Linda Hollis,
Chief, Biochemical Pesticides Branch
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: ARMICARB 100
EPA Reg. No. 5905-541
Notification of Alternate Brand Name

Dear Ms. Hollis:

Notification of alternate brand name, "Eco-Mate Armicarb O", per PR Notice 98-10. The following documents are submitted in support of this notification:

- EPA Form 8570-1 (Application for Pesticide: Other)
One copy of EPA Form 8570-1 dated May 21, 2012 addressing the need for a notification.
- 2 Copies of Draft Labeling
Two copies of labeling showing the new alternate brand name, "Eco-Mate Armicarb O".

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Should you have any questions or comments, please do not hesitate to contact me at 901-752-4420 or by e-mail at washburn@helenachemical.com

Sincerely,

A handwritten signature in blue ink that reads "Bill Washburn".

Bill Washburn
Registration Specialist

4/14

Notification Accepted

Date: MAY 30 2012

Reviewer: Sylvester George

ECO MATE



ARMICARB[®] O

A BROAD SPECTRUM, CONTACT FOLIAR FUNGICIDE, FOR CONTROL OF A VARIETY OF DISEASES ON AGRICULTURAL CROPS, TERRESTRIAL AND ORNAMENTAL PLANTS, GREENHOUSE AND NURSERY CROPS AND TURF

This package can treat up to _____ acre(s) at the recommended maximum treatment rate.

ACTIVE INGREDIENT:

Potassium Bicarbonate 85.00%

OTHER INGREDIENTS 15.00%

TOTAL 100.00%

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

FIRST AID

IF SWALLOWED:

- Call poison control center or doctor immediately for treatment advice.
- Have person drink several glasses of water.
- Do not induce vomiting.
- Do not give anything by mouth to an unconscious person.

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.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

See Inside Panel For Additional Precautionary Statements

EPA REG. NO. 5905-541-AA

EPA EST. NO.

NET CONTENTS: 5 Lbs. (2.27 kg)

AD 070110

MANUFACTURED FOR
 HELENA CHEMICAL COMPANY
 225 SCHILLING BLVD. SUITE 300
 COLLIERVILLE, TENNESSEE 38017

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear

- Long sleeved shirt and long pants
- Shoes plus socks

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

USER SAFETY RECOMMENDATIONS

Users should

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing

ENVIRONMENTAL HAZARDS

Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

DIRECTIONS FOR USE

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is coveralls, waterproof gloves, shoes plus socks.

NON AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE Store in original container in a cool, dry place. Prevent exposure to moisture. Keep container tightly closed and out of the reach of children. Avoid contamination with other pesticides or fertilizers.

PESTICIDE SPILL PROCEDURE In case of a spill, carefully sweep up the material to avoid generating dust. Store in a labeled container for disposal.

PESTICIDE DISPOSAL Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

[See Container for Batch Code]

GENERAL INFORMATION

ECO MATE® ARMICARB® "O" IS A BROAD SPECTRUM, CONTACT FOLIAR FUNGICIDE, FOR CONTROL OF A VARIETY OF DISEASES ON AGRICULTURAL CROPS, TERRESTRIAL AND ORNAMENTAL PLANTS, GREENHOUSE AND NURSERY CROPS AND TURF

ECO MATE® ARMICARB® "O" is applied using a sufficient volume of water to insure complete coverage of all stems and foliage **Final spray solution should not be below 7.0 pH**

SPRAY APPLICATION METHOD Do not apply this product through any type of irrigation system For best results use a properly calibrated sprayer and check the calibration frequently

IMPORTANT Read the entire label before using **ECO MATE® ARMICARB® "O"** Consult your State Agricultural Experiment Station or Extension Service Specialist for additional information on timing of applications rates and any additional requirements or restrictions

MIXING INSTRUCTIONS

ECO MATE® ARMICARB® "O" must be diluted with water before applying Carefully measure and mix the recommended amounts of product and water

- 1 Fill tank with 1/2 to 3/4 of the selected volume of water prior to the addition of **ECO MATE® ARMICARB® "O"** Start mechanical or hydraulic agitation
- 2 Slowly add the required amount of **ECO MATE® ARMICARB® "O"** to the tank
- 3 Continue to fill the tank with water to the desired volume while agitating to promote uniform distribution and prevent settling

Some tank mixes may produce spray mixes that are incompatible A jar test is recommended for unfamiliar tank mixes **AS WITH ANY PESTICIDE, THE ADDITION OF SPRAY ADJUVANTS AND OTHER PESTICIDES TO THE SPRAY TANK MAY CAUSE PHYTOTOXICITY TO THE FOLIAGE AND/OR FRUIT OF SUSCEPTIBLE CROPS AND PLANTS**

APPLICATION TIMING

Start application at first sign of disease For best protection repeat at one to two week intervals until conditions are no longer favorable for disease development Shorten the interval during rainy weather or during periods of high relative humidity

For appropriate crops **ECO MATE® ARMICARB® "O"** may also be applied post harvest to remaining foliage to decrease overwintering inoculum

FIELD APPLICATION (California registered uses are listed in a separate section)

Mix at a rate of 2.5 to 5.0 pounds of **ECO MATE® ARMICARB® "O"** in 100 gallons of water Apply mixed spray solution to thoroughly wet stems and foliage of plants Apply a minimum of 20 gallons of mixed spray solution per acre Spray volume per acre of treatment can vary depending upon plant type and stage of development Concentration of spray solution and frequency of application will depend upon disease pressure Repeat application at 10 – 14 day intervals or as needed Increase frequency of application to every 5 – 7 days during periods of weather favorable to fungal growth **DO NOT EXCEED A MIX RATE OF 5 POUNDS OF ECO MATE® ARMICARB® "O" PER 100 GALLONS OF WATER** Do not store unused spray solution Dispose of unused spray solution on site **Spray solution should be applied within 12 hours of preparation**

GREENHOUSE APPLICATION (California registered uses are listed in a separate section)

Mix at a rate of 2.5 to 5 pounds of **ECO MATE® ARMICARB® "O"** in 100 gallons of water Apply mixed spray solution to thoroughly wet stems and foliage of plants Spray volume per unit of treated area can vary depending upon plant type and stage development Use minimum of 10 – 20 gallons of water per 1/10 acre or 4350 sq ft Concentration of spray solution and frequency of application will depend upon disease pressure Repeat application at 10 – 14 day intervals or as needed Increase frequency of application to every 5 – 7 days during periods of weather favorable to fungal growth **DO NOT EXCEED A MIX RATE OF 5 POUNDS OF ECO MATE® ARMICARB® "O" PER 100 GALLONS OF WATER** Do not store unused spray solution Dispose of unused solution on site **Spray solution should be applied within 12 hours of preparation**

TURF APPLICATION (California registered uses in separate section)

Mix at a rate of 9.2 oz to 18.4 oz in 2.5 gallons of water Apply mixed spray solution at a rate of 2.5 gallons per 1000 sq ft or 109 gallons per acre Uniform and complete coverage of the foliage is essential for the most effective results Concentration of spray solution and frequency of application will depend upon disease pressure Repeat applications at 10 – 14 day intervals or as needed Increase frequency of applications every 5 – 7 days during periods of weather favorable to fungal growth **DO NOT EXCEED A MIX RATE OF 18.4 OZ ECO MATE® ARMICARB® "O" PER 2.5 GALLONS OF WATER** Do not store unused spray solution Dispose of unused solution on site **Spray solution should be applied within 12 hours of preparation**

ORNAMENTAL APPLICATIONS (California registered uses are listed in a separate section) **ECO MATE® ARMICARB® "O"** is recommended for

use in the following use sites Greenhouse Lathhouse Shadehouse Commercial and Residential Landscapes Interiorscapes Nursery Container Production and Field Applications **If Ornamentals are produced in a field system** Mix at a rate of 2.5 to 5 pounds of **ECO MATE® ARMICARB® "O"** in 100 gallons of water Apply mixed spray solution to thoroughly wet stems and foliage of plants Apply a minimum of 20 gallons of mixed

spray solution per acre **If Ornamentals are produced in a Greenhouse system** Mix at a rate of 2.5 to 5 pounds of **ECO MATE® ARMICARB® "O"** in 100 gallons of water Use a minimum of 10 – 20 gallons of mixed spray solution per 4350 sq ft or 1/10 acre In both production systems spray volume per acre/ sq ft of treatment may vary depending upon plant type and stage of development Concentration and frequency of application will depend upon disease pressure Repeat application at 10 –14 day intervals or as needed Increase frequency of applications to every 5 – 7 days during conditions favorable to fungal growth **DO NOT EXCEED A MIX RATE OF 5 POUNDS OF ECO MATE® ARMICARB® "O" PER 100 GALLONS OF WATER** Do not store unused spray solution Dispose of unused solution on site **Spray solution should be applied within 12 hours of preparation**

AGRICULTURAL APPLICATIONS (California registered uses are listed in a separate section)

ECO MATE® ARMICARB® "O" is recommended for use in the following use sites Greenhouse Orchard Nursery and Field Applications

PHI Preharvest Interval zero (0) days required on the following crops

FOR USE ON

CROPS		DISEASES	RATE LBS ECO MATE® ARMICARB® 'O' per 100 Gal Water
Alfalfa	Control	<i>Phoma</i> (spring black stem and leaf spot) <i>Colletotrichum</i> (anthracnose) <i>Peronospora</i> (downy mildew) <i>Botrytis</i> (shoot and flower blight) <i>Erysiphe</i> (powdery mildew)	2.5 5.0
Almonds	Control	<i>Gloeosporium</i> (anthracnose kernal rot) <i>Podosphaera</i> (powdery mildew) <i>Sphaerotheca</i> (powdery mildew) <i>Monilinia</i> (blossom brown rot)	2.5 5.0
Apples	Control	<i>Neofabraea</i> (northeastern anthracnose) <i>Glomerella</i> (spot anthracnose) <i>Alternaria</i> (leaf spot end rot fruit rot) <i>Podosphaera</i> (powdery mildew) <i>Phoma</i> (fruit rot) <i>Botrytis</i> (fruit rot) <i>Elsinoe</i> (spot anthracnose) <i>Colletotrichum</i> (fruit anthracnose) <i>Monilinia</i> (brown rot) <i>Schizothyrnum</i> (fly speck)	2.5 5.0
Apricots	Control	<i>Alternaria</i> (blossom end rot fruit spot) <i>Botrytis</i> (green fruit rot gummosis) <i>Podosphaera</i> (powdery mildew) <i>Sphaerotheca</i> (powdery mildew) <i>Monilinia</i> (brown rot blossom blight)	2.5 5.0
Avocado	Control	<i>Alternaria</i> (fruit rot) <i>Sphacelona</i> (spot anthracnose) <i>Glomerella</i> (anthracnose)	2.5 5.0
Barley	Control	<i>Erysiphe</i> (powdery mildew) <i>Septoria</i> (leaf blight leaf spot)	2.5 5.0
Beans (Asparagus Dry Beans Kidney Beans Lima Beans Snap Beans Scarlet Runner)	Control	<i>Erysiphe</i> (powdery mildew) <i>Colletotrichum</i> (anthracnose) <i>Botrytis</i> (gray mold blight) <i>Ascochyta</i> (leaf and pod spot) <i>Alternaria</i> (leaf spot) <i>Erysiphe and Microsphaera</i> (powdery mildew)	2.5 5.0

		<i>Sphaceloma</i> (spot anthracnose)	
Blueberries	Control	<i>Gloeosporium</i> (anthracnose) <i>Glomerella</i> (anthracnose berry rot) <i>Botrytis</i> (botrytis blight blossom fruit twig canker) <i>Septoria</i> (leaf spot) <i>Phoma</i> (phoma canker) <i>Alternaria</i> (canker leaf spot berry rot) <i>Monilinia</i> (brown rot gummy berry) <i>Microsphaera</i> (powdery mildew)	2 5 5 0
Brassica Crops (Broccoli Brussel Sprouts Cabbage Cauliflower Chinese Cabbage Kale Kohlrabi Mustard Greens Radicchio Turnip)	Control	<i>Phoma</i> (blackleg leaf spot) <i>Botrytis</i> (gray mold blight) <i>Peronospora</i> (downy mildew) <i>Alternaria</i> (gray leaf spot black leaf spot) <i>Erysiphe</i> (powdery mildew) <i>Colletotrichum</i> (anthracnose)	2 5 5 0
Caneberries (Blackberry Gooseberry Raspberry Huckleberry)	Control	<i>Peronospora Plasmopara</i> (powdery mildew) <i>Gloeodes</i> (sooty blotch) <i>Septoria</i> (leaf spot) <i>Microsphaera Sphaerotheca</i> <i>Phyllactinia</i> (powdery mildew) <i>Botrytis</i> (gray mold rot coral spot) <i>Pseudopeziza Glomerella</i> (anthracnose spot anthracnose) <i>Sphaceloma Elsinoe</i> (spot anthracnose) <i>Gloeosporium</i> (gray bark anthracnose) <i>Monilinia</i> (brown rot) <i>Alternaria</i> (fruit rot)	2 5 5 0
Carrots	Control	<i>Colletotrichum</i> (anthracnose) <i>Alternaria</i> (leaf blight leaf spot) <i>Pseudoperonospora</i> (downy mildew) <i>Ascochyta</i> (leaf spot) <i>Septoria</i> (leaf spot) <i>Erysiphe Sphaerotheca Leveillula</i> (powdery mildew) <i>Botrytis</i> (fruit rot) <i>Gloeosporium</i> (spot anthracnose)	2 5 5 0
Cherries	Control	<i>Botrytis</i> (fruit rot) <i>Alternaria</i> (leaf spot fruit rot) <i>Podosphaera</i> (powdery mildew) <i>Monilinia</i> (blossom rot brown rot seedling twig shoot leaf blight)	2 5 5 0

Citrus	Control	<i>Glomerella</i> (anthracnose) <i>Alternaria</i> (brown spot blight fruit blight tar spot black rot) <i>Oidium</i> (powdery mildew) <i>Botrytis</i> (gray mold rot) <i>Elsinoe</i> (spot anthracnose) <i>Gloeosporium</i> (anthracnose fruit rot) <i>Gloeodes</i> (sooty blotch)	2 5 5 0
Cucumber	Control	<i>Colletotrichum</i> (anthracnose) <i>Alternaria</i> (leaf blight leaf spot) <i>Pseudoperonospara</i> (downy mildew) <i>Ascochyta</i> (leaf spot) <i>Septoria</i> (leaf spot) <i>Erysiphe Sphaerotheca Leveillula</i> (powdery mildew) <i>Botrytis</i> (fruit rot) <i>Gloeosporium</i> (spot anthracnose)	2 5 5 0
Eggplant	Control	<i>Colletotrichum Gloeosporium</i> <i>Glomerella</i> (anthracnose) <i>Alternaria</i> (early blight) <i>Peronospora</i> (downy mildew) <i>Botrytis</i> (gray mold rot) <i>Ascochyta</i> (leaf spot) <i>Septoria</i> (leaf spot) <i>Erysiphe</i> (powdery mildew)	2 5 5 0
Endive Chickory Escarole	Control	<i>Bremia</i> (downy mildew) <i>Alternaria</i> (leaf spot) <i>Erysiphe</i> (powdery mildew) <i>Botrytis</i> (gray mold rot)	2 5 5 0
Grape	Control	<i>Plasmopara</i> (downy mildew) <i>Colletotrichum</i> (fruit anthracnose) <i>Glomerella</i> (anthracnose) <i>Septoria</i> (leaf spot) <i>Uncinula</i> (powdery mildew) <i>Alternaria</i> (fruit spot) <i>Botrytis</i> (gray mold rot) <i>Phoma</i> (fruit rot) <i>Elsinoe</i> (spot anthracnose bird s eye rot)	2 5 5 0
Herbs Basil Oregano Rosemary Sage Thyme	Control	<i>Colletrichum</i> (black spot) <i>Erysiphe</i> (powdery mildew) <i>Erysiphe</i> (powdery mildew) <i>Peronospora</i> (downey mildew) <i>Erysiphe</i> (powdery mildew) <i>Botrytis</i> (gray mold blight)	2 5 5 0
Hops	Control	<i>Colletotrichum Glomerella</i> (anthracnose) <i>Pseudoperonospora</i> (downy mildew) <i>Septoria</i> (leaf spot) <i>Erysiphe Sphaerotheca</i> (powdery mildew)	2 5 5 0 c c c c c c c c
Lettuce	Control	<i>Marssonina</i> (powdery mildew) <i>Bremia</i> (downy mildew) <i>Alternaria</i> (leaf spot) <i>Septoria</i> (leaf spot) <i>Erysiphe</i> (powdery mildew)	2 5 5 0 c

		<i>Botrytis</i> (gray mold rot)	
Mango	Control	<i>Glomerella</i> (anthracnose) <i>Septoria</i> (leaf spot) <i>Oidium</i> (powdery mildew) <i>Elsinoe</i> (spot anthracnose)	2 5 5 0
Melons (Cantaloupe Crenshaw Honeydew Muskmelon Watermelon)	Control	<i>Colletotrichum Marssonina</i> (anthracnose) <i>Alternaria</i> (leaf blight black mold leaf spot) <i>Pseudoperonospora</i> (downy mildew) <i>Septoria</i> (leaf spot) <i>Erysiphe</i> (powdery mildew)	2 5 5 0
Nectarine	Control	<i>Podosphaera Sphaerotheca</i> (powdery mildew) <i>Monilinia</i> (twig blight brown rot)	2 5 5 0
Okra	Control	<i>Colletotrichum</i> (anthracnose pod spot) <i>Ascochyta Alternaria</i> <i>Erysiphe</i> (powdery mildew) <i>Botrytis</i> (pod spot)	2 5 5 0
Onions	Control	<i>Colletotrichum</i> (anthracnose) <i>Alternaria</i> (leaf blight leaf spot) <i>Pseudoperonspara</i> (downy mildew) <i>Ascochyta</i> (leaf spot) <i>Septoria</i> (leaf spot) <i>Erysiphe Sphaerotheca Leveillula</i> (powdery mildew) <i>Botrytis</i> (fruit rot) <i>Gloeosporium</i> (spot anthracnose)	2 5 5 0
Peas	Control	<i>Colletotrichum</i> (leaf and pod spot anthracnose) <i>Peronospora</i> (downy mildew) <i>Ascochyta</i> (leaf blight) <i>Alternaria</i> (leaf blight) <i>Erysiphe</i> (powdery mildew) <i>Botrytis</i> (gray mold rot)	2 5 5 0
Peaches	Control	<i>Podosphaera Sphaerotheca</i> (powdery mildew) <i>Botrytis</i> (gray mold) <i>Monilinia</i> (blossom and twig blight brown rot) <i>Glomerella</i> (anthracnose rot)	2 5 5 0
Pears	Control	<i>Neofabracea</i> (northwestern anthracnose) <i>Elsinoe</i> (spot anthracnose) <i>Phoma</i> (fruit rot) <i>Podosphaera</i> (powdery mildew) <i>Botrytis</i> (blossom and twig blight) <i>Alternaria</i> (fruit rot) <i>Gloeodes</i> (sooty blotch) <i>Monilinia</i> (brown rot blossom rot) <i>Glomerella</i> (anthracnose)	2 5 5 0

Pecans	Control	<i>Glomerella</i> (anthracnose) <i>Septoria</i> (leaf spot) <i>Microsphaera</i> (powdery mildew) <i>Elsinoe</i> (spot anthracnose)	2 5 5 0
Peppers	Control	<i>Gloeosporium</i> <i>Glomerella</i> <i>Colletotrichum</i> (spot and fruit anthracnose fruit rot ripe rot) <i>Peronospora</i> (downy mildew) <i>Ascochyta</i> (leaf spot) <i>Leveillula</i> (powdery mildew) <i>Alternaria</i> (black rot early blight) <i>Phoma</i> (fruit rot) <i>Botrytis</i> (gray mold rot)	2 5 5 0
Pistachio	Control	<i>Botrytis</i> (shoot blight) <i>Septoria</i> (leaf spot)	2 5 5 0
Plums Prunes	Control	<i>Botrytis</i> (blossom and twig blight fruit rot) <i>Alternaria</i> (fruit rot) <i>Monilinia</i> (blossom blight twig blight brown rot) <i>Septoria</i> (leaf spot shot hole) <i>Podosphaera</i> (powdery mildew)	2 5 5 0
Potatoes	Control	<i>Gloeosporium</i> (anthracnose) <i>Colletotrichum</i> (black dot disease) <i>Alternaria</i> (early blight) <i>Ascochyta</i> (leaf spot) <i>Erysiphe</i> <i>Oidium</i> (powdery mildew) <i>Botrytis</i> (gray mold rot shoot blight)	2 5 5 0
Spinach	Control	<i>Colletotrichum</i> (anthracnose) <i>Peronospora</i> (downy mildew)	2 5 5 0
Squash (Acorn Pumpkin Summer Winter Zucchini)	Control	<i>Colletotrichum</i> (anthracnose) <i>Gloeosporium</i> (spot anthracnose) <i>Alternaria</i> (fruit rot leaf blight) <i>Pseudoperonospora</i> (downy mildew) <i>Ascochyta</i> <i>Septoria</i> (leaf spot) <i>Erysiphe</i> <i>Sphaerotheca</i> (powdery mildew) <i>Phoma</i> (fruit rot stem rot leaf spot) <i>Botrytis</i> (gray mold fruit rot)	2 5 5 0 c c c c c c c c
Strawberry	Control	<i>Colletotrichum</i> (anthracnose fruit anthracnose) <i>Gloeosporium</i> (anthracnose spot anthracnose) <i>Botrytis</i> (gray mold blight) <i>Sphaerotheca</i> (powdery mildew) <i>Peronospora</i> (downy mildew)	2 5 5 0 c c c c c c c
Sweet potato	Control	<i>Alternaria</i> <i>Septoria</i> (leaf spot) <i>Botrytis</i> (gray mold rot)	2 5 5 0

Tomatoes	Control	<i>Glomerella Colletotrichum</i> (anthracnose black dot disease) <i>Alternaria</i> (early blight black mold fruit rot nailhead spot rot) <i>Botrytis</i> (gray mold rot ghost spot) <i>Peronospora</i> (downy mildew) <i>Phoma</i> (fruit rot) <i>Ascochyta Septoria</i> (leaf spot) <i>Erysiphe Leveillula Oidiopsis</i> <i>Oidium</i> (powdery mildew)	2 5 5 0
Walnut	Control	<i>Gnomonia</i> (anthracnose) <i>Ascochyta</i> (ring spot) <i>Alternaria</i> (nut mold) <i>Phyllactinia Microsphaera</i> <i>Erysiphe</i> (powdery mildew)	2 5 5 0
Wheat	Control	<i>Alternaria</i> (black head mold black point) <i>Septoria</i> (leaf and glume blotch) <i>Ascochyta</i> (leaf spot) <i>Colletotrichum</i> (anthracnose) <i>Erysiphe</i> (powdery mildew) <i>Sclerophthora</i> (downy mildew)	2 5 5 0

TURF APPLICATION (California registered uses are listed in a separate section)

ECO MATE® ARMICARB® “O” is recommended for use in the following use sites Commercial and residential lawns, golf course, and other commercial turf grass sites

PHI Preharvest Interval zero (0) days required

FOR USE ON

- Bentgrass
- Bermudagrass
- Bluegrass, Kentucky, annual
- Centipedegrass
- Fescue, fine, tall, chewings, red
- Ryegrass, perennial, annual
- St Augustinegrass
- Zoysiagrass

DISEASES CONTROLLED

- Alternaria leaf spot
- Anthracnose
- Ascochyta blight
- Downy mildew
- Helminthosporium leaf spot
- Powdery mildew
- Septoria leaf spot

ORNAMENTAL APPLICATIONS (California registered uses are listed in a separate section)

PHI Preharvest Interval zero (0) days required for the following plant types

PLANT TYPES

- Annual and perennial flowers
- Woody and ornamental shade trees
- Woody and herbaceous ornamentals
- Ornamental nut and fruit trees

FOR USE ON

Ageratum	Crassula	Juniper	Pothos
Ajuga	Croton	Kalanchoe	Primrose
Almond Ornamental	Delphinium	Lavender	Privet
Alyssum	Dianthus	Lemon balm	Protea
Andromeda	Disygotheca	Lipstick balm	Prune Ornamental
Aphelandra	Dogwood	Lipstick Vine	Pulmonaria
Apple Ornamental	English Ivy	(Aeschynanthus)	Pyracantha
Apricot Ornamental	Episcia	Marigold	Rhododendron
Artemisia	Euonymus	Monarda (Bee Balm)	Rose
Aster	Fern	Nectarine Ornamental	Rose of Sharon
Azalea	Forsythia	Pachysandra	Schefflera
Boxwood	Gazania	Palm	Snapdragon
Calendula	Geranium	Pansy	Statice
Carnation	Gladiolus	Peach Ornamental	Tree Ivy
Centaurea montana	Gloxinia	Peperomia	Verbena
Cherry Ornamental	Gypsophila	Periwinkle	Viburnum
Chrysanthemum	Hawthorn	Philodendron	Violet
Cineraria	Heliopsis scabra	Phlox	Zinnia
Citrus	Hibiscus	Pilea	
Coleus	Holly	Pine	
Columbine	Hoya	Pittosporum	
Coral Bells	Hydrangea	Plum Ornamental	
(Heuchera)	Impatiens	Poinsettia	
Crape Myrtle	Iris	Poppy	

DISEASES CONTROLLED

Alternaria blight

Anthracnose

Ascochyta blight

Black Spot

Botrytis blight

Botrytis gray mold

Corynespora leaf spot

Didymellina leaf spot

Diplodia tip blight

Entomosporium leaf spot

Fusarium

Helminthosporium leaf spot

Ink spot

Ovulinia sp

Phomopsis blight

Powdery mildew

Ramularia leaf spot

Ray blight

Scab

Septoria leaf spot

CALIFORNIA REGISTERED USES**PHI Preharvest Interval zero (0) days required on the following crops**

For use on

Acorn squash

Almond *

Apples*

Apricot *

Cantaloupe

Cherries *

Chicory

Crenshaw melon

Cucumber

Endive

Escarole

* Ornamental and fruiting varieties

Grapes

Honeydew

Lettuce

Muskmelon

Peach *

Pear

Pepper

Pistachio

Plum *

Prune *

Pumpkin

Radicchio

Rose

Spinach

Strawberries

Summer Squash

Tomato

Walnut

Watermelon

Winter squash

Zucchini

