



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 PM#	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Arnicarb 100	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 _____ Date Reviewed: _____ Reviewed by: _____	
5. Name and Address of Applicant (Include ZIP Code) Helena Chemical Company 225 Schilling Boulevard, Suite 300 Collierville, Tennessee 38017 <input type="checkbox"/> Check if this is a new address		

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<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.)

Other Revisions  
 Notification of Other Revisions 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 U.S.C. 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 product 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 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	If "Yes" Unit Packaging wgt. No. per container		<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Notification must be submitted		If "Yes" Package wgt. No. per container			
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input checked="" type="checkbox"/> On Label	
6. Manner in Which Label is Affixed to Product Self Adhesive			<input checked="" type="checkbox"/> Lithograph 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 Mandy K. Styles	Title Product Registration Supervisor	Telephone No. (Include Area Code) (901) 752-4420
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<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 (Stamped)
2. Signature 	3. Title Product Registration Supervisor	
4. Typed Name Mandy K. Styles	5. Date 10/13/2005	



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

October 13, 2005

U.S. Environmental Protection Agency  
Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504C)  
1801 South Bell Street  
Crystal Mall #2, Room 266A  
Arlington, VA 22202-4501

RE: Notification to Add Other Revisions

To Whom It May Concern,

Enclosed, you will find Helena Chemical Company's Notification for numerous products. Helena has changed Manufactured By Helena Chemical Company to Manufactured For Helena Chemical Company. This has been done on the following products:

- Pro-Mate Barricade 0.435% Plus Fertilizer 5905-536
- Pro-Mate Dimension 0.10% Plus Fertilizer 5905-537
- Pro-Mate Dimension 0.22% Plus Fertilizer 5905-538
- Pro-Mate Dimension 0.26% Plus Fertilizer 5905-539
- \* Asset PGR 5905-540 \*
- \* Armicarb 100 5905-541 \*
- HM-2010 5905-542
- Pro-Mate Barricade 0.22% Plus Fertilizer 5905-543
- Empower 2 Granular Insecticide 5905-548
- HardBall 5905-549
- Pro-Mate Ronstar 1% Plus Fertilizer 5905-551
- Bayonet 2 5905-554
- Pro-Mate Ronstar 0.67% Plus Fertilizer 5905-555
- \* First UP RST 5905-558 \*

This should also be noted on all alternate brand names of the master labels.

In support of these Notifications, you will find the following:

- EPA Form 8570-1
- 1 copy of the revised label highlighted

If you have any questions, do not hesitate to call me at (901) 752-4420 or by fax at (901) 758-1694. Thank you for your assistance in this matter.

Sincerely,

Mandy K. Styles  
Product Registration Supervisor

# ARMI <sup>®</sup> 100

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.

<b>ACTIVE INGREDIENT:</b>	
Potassium Bicarbonate.....	85.00%
<b>OTHER INGREDIENTS.....</b>	<b>15.00%</b>
<b>TOTAL.....</b>	<b>100.00%</b>

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**  
 See Inside Panel For Additional Precautionary Statements

EPA REG. NO. 5905-541-AA NET WEIGHT:  
 EPA EST. NO. SN 11021003

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

*Reviewed By: M. Lopez*  
*Reviewed By: A. Peltier*  
**NOTIFICATION**

**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.

**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:** 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.

#### GENERAL INFORMATION

**ARMICARB®100 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.**

**ARMICARB® 100** 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 **ARMICARB® 100**. 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

**ARMICARB® 100** 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 **ARMICARB® 100**. Start mechanical or hydraulic agitation.
2. Slowly add the required amount of **ARMICARB® 100** 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, **ARMICARB® 100** 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 **ARMICARB® 100** 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 ARMICARB® 100 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 **ARMICARB® 100** 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 ARMICARB® 100 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 .92 oz. to 1.84 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 1.84 OZ. ARMICARB® 100 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.) **ARMICARB® 100** is recommended for use in the following use sites: Greenhouse, Lathhouse, Shadehouse, Commercial and Residential Landscapes, Interiorscapes, Nursery, Container Production and Field Applications. **If Ornaments are produced in a field system:** Mix at a rate of 2.5 to 5 pounds of **ARMICARB® 100** in a 100 gallons of water. Apply mixed spray solution to thoroughly wet stems and foliage of plants. Apply a

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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 **ARMICARB® 100** 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 ARMICARB® 100**

**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.)

**ARMICARB® 100** 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 ARMICARB® 100 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, kernel 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>Schizothyrium</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>Sphaceloma</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) <i>Sphaceloma</i> (spot anthracnose)	2.5-5.0
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, mummy berry) <i>Microsphaeria</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, Phylactinia</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

CROPS		DISEASES	RATE: LBS ARMICARB® 100 per 100 Gal. Water
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>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
Eggplant	Control	<i>Colletotrichum, Gloeosporium, 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 yme	Control	<i>Colletotrichum</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
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) <i>Botrytis</i> (gray mold rot)	2.5-5.0

CROPS		DISEASES	RATE: LBS ARMICARB® 100 per 100 Gal. Water
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</i> , <i>Marssonia</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</i> , <i>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</i> , <i>Alternaria</i> <i>Erysiphe</i> (powdery mildew) <i>Botrytis</i> (pod spot)	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</i> , <i>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>Neofabraea</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



CROPS		DISEASES	RATE: LBS ARMICARB® 100 per 100 Gal. Water
Spinach	Control	<i>Colletotrichum</i> (anthracnose) <i>Peronospora</i> (downy mildew)	2.5-5.0
Squash: (Acom, 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, Septoria</i> (leaf spot) <i>Erysiphe, Sphaerotheca</i> (powdery mildew) <i>Phoma</i> (fruit rot, stem rot, leaf spot) <i>Botrytis</i> (gray mold, fruit rot)	2.5-5.0
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
Sweet potato	Control	<i>Alternaria, 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, 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, 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.)

**ARMICARB® 100** 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**

**OR 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	Dizygotheca	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	Fusarium
Anthraxnose	Helminthosporium leaf spot
Ascochyta blight	Ink spot
Black Spot	Ovulinia sp.
Botrytis blight	Phomopsis blight
Botrytis gray mold	Powdery mildew
Corynespora leaf spot	Ramularia leaf spot
Didymellina leaf spot	Ray blight
Diplodia tip blight	Scab
Entomosporium leaf spot	Septoria leaf spot

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

For use on:

Acorn squash	Cherries *	Escarole
Almond *	Chicory	Grapes
Apples*	Crenshaw melon	Honeydew
Apricot *	Cucumber	Lettuce
Cantaloupe	Endive	Muskmelon

Peach \*  
Pear  
Pepper  
Pistachio  
Plum \*  
Prune \*  
\* Ornamental and fruiting varieties

Pumpkin  
Radicchio  
Rose  
Spinach  
Strawberries  
Summer Squash

Tomato  
Walnut  
Watermelon  
Winter squash  
Zucchini

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## **DISEASES CONTROLLED**

**Downy mildew (Agricultural Crops Only)**

**Powdery mildew**

## **CONDITIONS OF SALE - LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES**

**Read the Conditions of Sale - Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.**

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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