

10772-8 4.26.2002

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United States Environmental Protection Agency



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Biopesticides and Pollution Prevention Division (7511C)  
1200 Pennsylvania Avenue NW  
Washington, DC 20460

EPA Reg. Number: 10772-8  
Date of Issuance: APR 26 2002

NOTICE OF PESTICIDE:

Registration  
 Reregistration

(under FIFRA, as amended)

Term of Issuance: Unconditional

Name of Pesticide Product: Arnicarb 100-F

Name and Address of Registrant (include ZIP Code):

Church & Dwight Co., Inc.  
469 N. Harrison Street  
Princeton, NJ 08543

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA Sec. 3(c)(5) provided you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA Sec.3 (c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA Sec. 4.
2. Revise the EPA Registration Number to read, "EPA Reg. No. 10772-8".
3. Submit two (2) copies of your final printed label for the record.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official: *Frank L. Anderson*

Date: 4/26/02

(See second page for signature)

EPA Form 8570-6

CONCURRENCES

SYMBOL ▶	7511C	7571C	7511U				
SURNAME ▶	<i>Bianchi</i>	<i>Holtz</i>	<i>Rull</i>				
DATE ▶	4/23/02	4/23/02	4/24/02				

Master Label  
ARMICARB®100-F

A FUNGICIDE FOR THE CONTROL OF POWDERY MILDEW  
AND OTHER DISEASES ON TERRESTRIAL AND INDOOR ORNAMENTAL PLANTS,  
GREENHOUSE AND AGRICULTURAL CROPS, AND TURF

ACTIVE INGREDIENT:	
Potassium Bicarbonate.....	85.00%
OTHER INGREDIENTS:.....15.00%	
TOTAL.....	100.00%

- A: **SUBLABEL - COMMERCIAL PRODUCTS: FOR COMMERCIAL APPLICATORS  
SUBJECT TO WORKER PROTECTION STANDARD**
- B: **SUBLABEL - COMMERCIAL PRODUCTS: FOR COMMERCIAL APPLICATORS  
SUBJECT TO WORKER PROTECTION STANDARD - WATER  
SOLUBLE PACKAGING LABEL**
- C: **SUBLABEL - HOUSEHOLD PRODUCTS: FOR NON-COMMERCIAL  
APPLICATORS (NOT SUBJECT TO WORKER PROTECTION  
STANDARD)**

CHURCH & DWIGHT CO., INC.  
469 N. HARRISON STREET  
PRINCETON, NJ 08543

EPA REG. NO. 10772-8

<b>ACCEPTED</b>
APR 26 2002
Under the Federal Insecticides, Fungicides, and Rodenticides Act, as amended, for the pesticide registered under EPA Reg. No. 10772-8

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**SUBLABEL - COMMERCIAL PRODUCTS: FOR COMMERCIAL APPLICATORS  
SUBJECT TO WORKER PROTECTION STANDARD**

**ARMICARB®100-F**

A FUNGICIDE FOR THE CONTROL OF POWDERY MILDEW  
AND OTHER DISEASES ON TERRESTRIAL AND INDOOR ORNAMENTAL PLANTS,  
GREENHOUSE AND AGRICULTURAL 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**

See side (or back) panel for the First Aid Information.

- Net weight: 2.5 lbs. (1.14 kg)
- 5 lbs. (2.27 kg)
- 10 lbs. (4.54 kg)
- 25 lbs. (11.35 kg)
- 50 lbs. (22.7 kg)
- 100 lbs. (45.4 kg)

CHURCH & DWIGHT CO., INC.  
469 N. HARRISON STREET  
PRINCETON, NJ 08543

EPA REG. NO. 10772-8  
EPA EST. NO.

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**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	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person drink several glasses of water.</li> <li>• Do not induce vomiting.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
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 1-800-228-5635 Ext. 007 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
<p>Users should:</p> <ul style="list-style-type: none"> <li>• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.</li> <li>• Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> </ul>

### 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

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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-F is a broad spectrum, contact foliar fungicide that controls a variety of diseases on terrestrial and indoor woody and herbaceous ornamental plants, and on greenhouse, nursery and agricultural crops, and on turf.

ARMICARB® 100-F is applied using a sufficient volume of water to insure complete coverage of all stems and foliage.

**IMPORTANT:** Read the entire label before using ARMICARB® 100-F. 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-F must be diluted with water before applying. Carefully measure and mix the 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-F. Start mechanical or hydraulic agitation.
2. Slowly add the required amount of ARMICARB® 100-F to the tank.
3. Continue to fill the tank with water to the desired volume while agitating to promote uniform distribution and prevent settling.

Other pesticide products and spray adjuvants are generally not required. 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.

### 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.

#### *FIELD APPLICATION*

Apply at a rate of 2.5 to 5 pounds of ARMICARB® 100-F per acre. Use a sufficient volume of spray solution to obtain complete coverage of foliage and stems. Uniform and complete coverage of the foliage is essential for the most effective results. Spray volume per acre of treatment can vary depending upon plant type and stage of development. Average treatment requires 100 gallons of water per acre. Concentration of spray solution and frequency of application will depend upon disease pressure. Do not exceed a use rate of 5 pounds of ARMICARB® 100-F per acre, per application. Do not store unused spray solution. Dispose of unused solution on site.

#### *GREENHOUSE APPLICATION*

Apply at a rate of 0.25 to 0.5 pound per 4360 sq. ft. or 1/10 acre. Use a sufficient volume of spray solution to obtain complete coverage of foliage and stems. Uniform and complete coverage of the foliage is essential for the most effective results. Spray volume per unit of treated area can vary depending upon plant type and stage of development. Average treatment requires 10-20 gallons of water per 1/10 acre. Concentration of spray solution and frequency of application will depend upon disease pressure. Do not exceed a use rate of 0.5 pound of ARMICARB® 100-F per 4360 sq. ft. (1/10 acre), per application. Do not store unused spray solution. Dispose of unused solution on site.

#### *TURF APPLICATION*

Apply at a rate of 2.5 to 5 pounds of ARMICARB® 100-F per acre. Use a sufficient volume of spray solution to obtain complete coverage of foliage. Uniform and complete coverage of the foliage is essential for the most effective results. Spray volume per acre of treatment can vary depending upon stage of development. Average treatment requires 100 gallons of water per acre. Concentration of spray solution and frequency of application will depend upon disease pressure. Do not exceed a use rate of 5 pounds of ARMICARB® 100-F per acre, per application. Do not store unused spray solution. Dispose of unused solution on site.

### 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-F may also be applied post-harvest to remaining foliage to decrease overwintering inoculation.

**ORNAMENTAL APPLICATIONS:**(California registered uses are listed in a separate section.)  
ARMICARB® 100-F is for use in the following use sites: Greenhouse, Lathhouse, Shadehouse, Commercial and Residential Landscapes, Interiorscapes, Nursery, Container Production and Field Applications.

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

**DISEASES CONTROLLED**

- |                       |                            |
|-----------------------|----------------------------|
| Alternaria blight     | Fusarium                   |
| Anthraxnose           | Helminthosporium leaf spot |
| Ascochyta blight      | Ink spot                   |
| Black Spot            | Phomopsis blight           |
| Botrytis blight       | Powdery mildew             |
| Botrytis gray mold    | Ovulinia sp.               |
| Cercospora leaf spot  | Ramularia leaf spot        |
| Corynespora leaf spot | Ray blight                 |
| Didymellina leaf spot | Scab                       |

Diplodia tip blight                      Septoria leaf spot  
Entomosporium leaf spot

**AGRICULTURAL APPLICATIONS:**(California registered uses are listed in a separate section.)  
ARMICARB® 100-F is for use in the following use sites: Greenhouse, Orchard, Nursery, and Field Applications.

**FOR USE ON:**

- |              |                |                |                |
|--------------|----------------|----------------|----------------|
| Acorn squash | Citrus         | Mustard greens | Sage           |
| Almonds      | Crenshaw melon | Okra           | Snap beans     |
| Apples       | Cucumber       | Oregano        | Snow peas      |
| Apricots     | Dry beans      | Peaches        | Soybeans       |
| Alfalfa      | Eggplant       | Pears          | Spinach        |
| Avocado      | Endive         | Peas           | Strawberries   |
| Barley       | Escarole       | Pecans         | Sugar beets    |
| Basil        | Grapes         | Peppers        | Summer squash  |
| Blueberries  | Honeydew       | Pistachio      | Sweet potatoes |
| Broccoli     | Hops           | Plums          | Thyme          |
| Cabbage      | Kale           | Potatoes       | Tomatoes       |
| Caneberries  | Lettuce        | Prunes         | Turnip         |
| Cantaloupe   | Lima bean      | Pumpkin        | Walnut         |
| Cauliflower  | Mango          | Radicchio      | Watermelon     |
| Cherries     | Muskmelon      | Rosemary       | Wheat          |
| Chicory      |                |                | Winter squash  |
|              |                |                | Zucchini       |

**DISEASES CONTROLLED:**

- |                      |                |
|----------------------|----------------|
| Alternaria leaf spot | Phoma          |
| Anthraxnose          | Phytophthora   |
| Botrytis             | Powdery mildew |
| Downy mildew         |                |
| Fusarium             |                |

**TURF APPLICATION** (California registered uses are listed in a separate section.)  
ARMICARB® 100-F is for use in the following use sites: Commercial and residential lawns, golf course, and other commercial turf grass sites.

**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 | Downy mildew               |
| Anthracnose          | Helminthosporium leaf spot |
| Ascochyta blight     | Powdery mildew             |
| Cercospora leaf spot | Septoria leaf spot         |

**CALIFORNIA REGISTERED USES:**

Powdery mildew on the following crops:

- Acorn squash
- Apples
- Cucumber
- Grapes
- Pumpkin
- Rose
- Strawberries
- Summer Squash
- Zucchini

**NOTICE**

Buyer assumes all responsibility for safety if use is not in accordance with label instructions.

**IMPORTANT NOTICE: DISCLAIMER AND LIMITATION OF LIABILITY**

This product has been researched to provide necessary data to support its use on the ornamental and agricultural plants listed on the label. However, it is understood that tests may not have been carried out on all varieties or cultivars and under all growing conditions on all plants listed on the



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label. Always follow the label instructions. Exercise care when using this product on a given variety until familiar with the results under his growing conditions.

**NO WARRANTY OR REPRESENTATION IS MADE, EXPRESS OR IMPLIED, CONCERNING THE RESULTS OBTAINED FROM THE USE OF THIS PRODUCT IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE.** The exclusive remedy of the user or Buyer, and the limit of liability of Church & Dwight Co., Inc. or any other Seller, for any and all losses, injuries or damages resulting from the use or handling of this product shall be the purchase price paid by the user or Buyer for the quantity of this product involved. The Buyer and all users are deemed to have accepted the terms of this Notice, which may be varied only by agreement in writing, signed by a duly authorized representative of Church & Dwight Co., Inc.

SUBLABEL - COMMERCIAL PRODUCTS: FOR COMMERCIAL APPLICATORS  
SUBJECT TO WORKER PROTECTION STANDARD - WATER  
SOLUBLE PACKAGING LABEL

ARMICARB® 100-F WATER  
SOLUBLE PACKAGE

A FUNGICIDE FOR THE CONTROL OF POWDERY MILDEW  
AND OTHER DISEASES ON TERRESTRIAL AND INDOOR  
ORNAMENTAL PLANTS, GREENHOUSE AND AGRICULTURAL CROPS, AND TURF

This package can treat up to \_\_\_\_\_ sq. ft. (acres) at the recommended maximum treatment rate.

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

KEEP OUT OF REACH OF CHILDREN

CAUTION

See side (or back) panel for the First Aid Information.

Net weight:	1.0 oz (28.35g)
	4.0 oz (113.4g)
	8.0 oz. (227 g)
	2.5 lbs. (1.14 kg)

CHURCH & DWIGHT CO., INC.  
469 N. HARRISON STREET  
PRINCETON, NJ 08543

EPA REG. NO. 10772-8  
EPA EST. NO.



**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	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person drink several glasses of water.</li> <li>• Do not induce vomiting.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
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 1-800-228-5635 Ext. 007 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
<p>Users should:</p> <ul style="list-style-type: none"> <li>• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.</li> <li>• Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> </ul>

**ENVIRONMENTAL HAZARDS**

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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.

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## 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:** Place inner bag into mixing tank. Dispose of empty outer 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-F is a broad spectrum, contact foliar fungicide that controls a variety of diseases on terrestrial and indoor woody and herbaceous ornamental plants, and on greenhouse, nursery and agricultural crops, and on turf.

ARMICARB® 100-F is applied using a sufficient volume of water to insure complete coverage of all stems and foliage.

**IMPORTANT:** Read the entire label before using ARMICARB® 100-F. 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-F must be diluted with water before applying. Carefully measure and mix the 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-F. Start mechanical or hydraulic agitation.
2. Add the required amount of ARMICARB® 100-F to the tank.
3. Continue to fill the tank with water to the desired volume while agitating to promote uniform distribution and prevent settling.

Other pesticide products and spray adjuvants are generally not required. 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.

### 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.

**FIELD, INDOOR, GREENHOUSE AND TURF APPLICATION**

(1 oz. package)

Apply at a rate of one to two packages of ARMICARB® 100-F for 1000 sq. ft. . For maximum treatment rate, use one package of ARMICARB® 100-F for 500 sq. ft. . Use sufficient volume of spray solution to obtain complete coverage of foliage and stems. Uniform and complete coverage of the foliage is essential for the most effective results. Spray volume per unit of treated area can vary depending upon plant type and stage of development. Average treatment requires 2.5 gallons of water per 1000 sq. ft. Do not exceed a use rate of 1 oz. (1 package) of ARMICARB® 100-F per 500 sq. ft., per application. Concentration of spray solution and frequency of application will depend upon disease pressure.

Do not store unused spray solution. Dispose of unused solution on site.

(4 oz. package)

Apply at a rate of one to two packages of ARMICARB® 100-F for 4360 sq. ft. (1/10 acre). For maximum treatment rate, use one package of ARMICARB® 100-F for 2175 sq. ft. (1/20 acre). Use sufficient volume of spray solution to obtain complete coverage of foliage and stems. Uniform and complete coverage of the foliage is essential for the most effective results. Spray volume per unit of treated area can vary depending upon plant type and stage of development. Average treatment requires 10 gallons of water per 4360 sq. ft. Do not exceed a use rate of 4oz. of ARMICARB® 100-F per 2175 sq. ft., per application. Concentration of spray solution and frequency of application will depend upon disease pressure.

Do not store unused spray solution. Dispose of unused solution on site.

(8 oz. package)

Apply at a rate of one to two packages of ARMICARB® 100-F for 8700 sq. ft. (2/10 acre). For maximum treatment rate, use one package of ARMICARB® 100-F for 4350 sq. ft. (1/10 acre). Use sufficient volume of spray solution to obtain complete coverage of foliage and stems. Uniform and complete coverage of the foliage is essential for the most effective results. Spray volume per unit of treated area can vary depending upon plant type and stage of development. Average treatment requires 100 gallons of water per 8700 sq. ft. Do not exceed a use rate of 8 oz. of ARMICARB® 100-F per 4350 sq. ft., per application. Concentration of spray solution and frequency of application will depend upon disease pressure.

Do not store unused spray solution. Dispose of unused solution on site.

(2.5 lb. package)

Apply at a rate of one to two packages of ARMICARB® 100-F per one acre. For maximum treatment rate use two packages of ARMICARB® 100-F per one acre (43,560 sq. ft.). Use sufficient volume of spray solution to obtain complete coverage of foliage and stems. Uniform and complete coverage of the foliage is essential for the most effective results. Spray volume per acre of treatment can vary depending upon plant type and stage of development. Average treatment requires 100 gallons of water per 43,560 sq. ft. Do not exceed a use rate of 5 pounds of

ARMICARB® 100-F per acre, per application. Concentration of spray solution and frequency of application will depend upon disease pressure.

Do not store unused spray solution. Dispose of unused solution on site.

#### 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-F may also be applied post-harvest to remaining foliage to decrease overwintering inoculation.



**ORNAMENTAL APPLICATIONS:**(California registered uses are listed in a separate section.)  
ARMICARB® 100-F is for use in the following use sites: Greenhouse, Lathhouse, Shadehouse, Commercial and Residential Landscapes, Interiorscapes, Nursery, Container Production and Field Applications.

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

**DISEASES CONTROLLED**

- |                       |                            |
|-----------------------|----------------------------|
| Alternaria blight     | Fusarium                   |
| Anthraxnose           | Helminthosporium leaf spot |
| Ascochyta blight      | Ink spot                   |
| Black Spot            | Phomopsis blight           |
| Botrytis blight       | Powdery mildew             |
| Botrytis gray mold    | Ovulinia sp.               |
| Cercospora leaf spot  | Ramularia leaf spot        |
| Corynespora leaf spot | Ray blight                 |

Didymellina leaf spot            Scab  
Diplodia tip blight             Septoria leaf spot  
Entomosporium leaf spot

**AGRICULTURAL APPLICATIONS:**(California registered uses are listed in a separate section.)  
ARMICARB® 100-F is for use in the following use sites: Greenhouse, Orchard, Nursery, and Field Applications.

**FOR USE ON:**

Acorn squash	Citrus	Mustard greens	Sage
Almonds	Crenshaw melon	Okra	Snap beans
Apples	Cucumber	Oregano	Snow peas
Apricots	Dry beans	Peaches	Soybeans
Alfalfa	Eggplant	Pears	Spinach
Avocado	Endive	Peas	Strawberries
Barley	Escarole	Pecans	Sugar beets
Basil	Grapes	Peppers	Summer squash
Blueberries	Honeydew	Pistachio	Sweet potatoes
Broccoli	Hops	Plums	Thyme
Cabbage	Kale	Potatoes	Tomatoes
Caneberries	Lettuce	Prunes	Turnip
Cantaloupe	Lima bean	Pumpkin	Walnut
Cauliflower	Mango	Radicchio	Watermelon
Cherries	Muskmelon	Rosemary	Wheat
Chicory			Winter squash
			Zucchini

**DISEASES CONTROLLED:**

Alternaria leaf spot	Phoma
Anthracnose	Phytophthora
Botrytis	Powdery mildew
Downy mildew	
Fusarium	

**TURF APPLICATION** (California registered uses are listed in a separate section.)  
ARMICARB® 100-F is for use in the following use sites: Commercial and residential lawns, golf course, and other commercial turf grass sites.

**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 | Downy mildew               |
| Anthracnose          | Helminthosporium leaf spot |
| Ascochyta blight     | Powdery mildew             |
| Cercospora leaf spot | Septoria leaf spot         |

**CALIFORNIA REGISTERED USES:**

Powdery mildew on the following crops:

- Acorn squash
- Apples
- Cucumber
- Grapes
- Pumpkin
- Rose
- Strawberries
- Summer Squash
- Zucchini

**NOTICE**

Buyer assumes all responsibility for safety if use is not in accordance with label instructions.

**IMPORTANT NOTICE: DISCLAIMER AND LIMITATION OF LIABILITY**

This product has been researched to provide necessary data to support its use on the ornamental and agricultural plants listed on the label. However, it is understood that tests may not have been carried out on all varieties or cultivars and under all growing conditions on all plants listed on the label. Always follow the label instructions. Exercise care when using this product on a given variety until familiar with the results under his growing conditions.



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**NO WARRANTY OR REPRESENTATION IS MADE, EXPRESS OR IMPLIED, CONCERNING THE RESULTS OBTAINED FROM THE USE OF THIS PRODUCT IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE.** The exclusive remedy of the user or Buyer, and the limit of liability of Church & Dwight Co., Inc. or any other Seller, for any and all losses, injuries or damages resulting from the use or handling of this product shall be the purchase price paid by the user or Buyer for the quantity of this product involved. The Buyer and all users are deemed to have accepted the terms of this Notice, which may be varied only by agreement in writing, signed by a duly authorized representative of Church & Dwight Co., Inc.

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SUBLABEL - HOUSEHOLD PRODUCTS: FOR NON-COMMERCIAL APPLICATORS  
(NOT SUBJECT TO WORKER PROTECTION STANDARD)  
ARMICARB® 100-F

A FUNGICIDE FOR THE CONTROL OF POWDERY MILDEW  
AND OTHER DISEASES ON TERRESTRIAL AND INDOOR ORNAMENTAL PLANTS,  
GREENHOUSE AND GARDEN CROPS AND TURF

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

KEEP OUT OF REACH OF CHILDREN

CAUTION

See side (or back) panel for the First Aid Information.

Net Weight:	6 oz.	(170 g)
	8 oz.	(227 g)
	1 lb.	(454 g)
	2.5 lbs.	(1.14 kg)

CHURCH & DWIGHT CO., INC.  
469 N. HARRISON STREET  
PRINCETON, NJ 08543

EPA REG. NO. 10772-8  
EPA EST. NO.



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**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	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person drink several glasses of water.</li> <li>• Do not induce vomiting.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
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 1-800-228-5635 Ext. 007 for emergency medical treatment information.	

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

**DIRECTIONS FOR USE**

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

**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.

**CONTAINER DISPOSAL:** Securely wrap original container in several layers of newspaper and discard in trash.

**GENERAL INFORMATION**



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ARMICARB®100-F is a broad spectrum, contact foliar fungicide that controls a variety of diseases on terrestrial and indoor woody and herbaceous ornamental, greenhouse and garden plants, and turf.

ARMICARB®100-F is applied with spray equipment using a sufficient volume of water to insure complete coverage of all stems and foliage.

**IMPORTANT:** Read the entire label before using ARMICARB®100-F.

### MIXING and APPLICATION INSTRUCTIONS

ARMICARB®100-F must be diluted with water before applying. Carefully measure and mix the product and water.

Mix 2 level tablespoons of ARMICARB®100-F per gallon of water. Do not exceed this use rate. Mix the solution thoroughly before use. One gallon of this solution is sufficient to treat approximately 450 square feet. Apply the solution to all exposed surfaces of the plant. Use a sufficient spray volume to obtain complete coverage of all foliage and stems. Uniform and complete coverage is essential for the most effective results.

**DO NOT STORE UNUSED SPRAY SOLUTIONS.**

Spray adjuvants are generally not required. Some tank mixes, with other pesticide products and fertilizers 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-F may also be applied post-harvest to remaining foliage to decrease overwintering inoculation.

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

### PLANT TYPES

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



**FOR USE ON:**

Ageratum  
 Ajuga  
 Almond-Ornamental  
 Alyssum  
 Andromeda  
 Aphelandra  
 Apple-Ornamental  
 Apricot-Ornamental  
 Artemisia  
 Aster  
 Azalea  
 Boxwood  
 Calendula  
 Carnation  
 Centaurea montana  
 Cherry-Ornamental  
 Chrysanthemum  
 Cineraria  
 Citrus  
 Coleus  
 Columbine  
 Coral Bells  
 (Heuchera)  
 Crape Myrtle

Crassula  
 Croton  
 Delphinium  
 Dianthus  
 Dizygotheca  
 Dogwood  
 English Ivy  
 Episcia  
 Euonymus  
 Fern  
 Forsythia  
 Gazania  
 Geranium  
 Gladiolus  
 Gloxinia  
 Gypsophila  
 Hawthorn  
 Heliopsis scabra  
 Hibiscus  
 Holly  
 Hoya  
 Hydrangea  
 Impatiens  
 Iris

Juniper  
 Kalanchoe  
 Lavender  
 Lemon balm  
 Lipstick balm  
 Lipstick Vine  
 (Aeschynanthus)  
 Marigold  
 Monarda (Bee Balm)  
 Nectarine-Ornamental  
 Pachysandra  
 Palm  
 Pansy  
 Peach-Ornamental  
 Peperomia  
 Periwinkle  
 Philodendron  
 Phlox  
 Pilea  
 Pine  
 Pittosporum  
 Plum-Ornamental  
 Poinsettia  
 Poppy  
 Pothos

Primrose  
 Privet  
 Protea  
 Prune-Ornamental  
 Pulmonaria  
 Pyracantha  
 Rhododendron  
 Rose  
 Rose-of-Sharon  
 Schefflera  
 Snapdragon  
 Statice  
 Tree Ivy  
 Verbena  
 Viburnum  
 Violet  
 Zinnia

**DISEASES CONTROLLED**

Alternaria blight  
 Anthracnose  
 Ascochyta blight  
 Black Spot  
 Botrytis blight  
 Botrytis gray mold  
 Cercospora leaf spot  
 Corynespora leaf spot  
 Didymellina leaf spot  
 Diplodia tip blight  
 Entomosporium leaf spot

Fusarium  
 Helminthosporium leaf spot  
 Ink spot  
 Phomopsis blight  
 Powdery mildew  
 Ovulinia sp.  
 Ramularia leaf spot  
 Ray blight  
 Scab  
 Septoria leaf spot

**GARDEN APPLICATIONS:** (California registered uses are listed in a separate section.)

**FOR USE ON:**

- |              |                |                |                |
|--------------|----------------|----------------|----------------|
| Acorn squash | Citrus         | Mustard greens | Sage           |
| Almonds      | Crenshaw melon | Okra           | Snap beans     |
| Apples       | Cucumber       | Oregano        | Snow peas      |
| Apricots     | Dry beans      | Peaches        | Spinach        |
| Avocado      | Eggplant       | Pears          | Strawberries   |
| Basil        | Endive         | Peas           | Summer squash  |
| Blueberries  | Escarole       | Pecans         | Sweet potatoes |
| Broccoli     | Grapes         | Peppers        | Thyme          |
| Cabbage      | Honeydew       | Pistachio      | Tomatoes       |
| Caneberries  | Kale           | Plums          | Turnip         |
| Cantaloupe   | Lettuce        | Potatoes       | Walnut         |
| Cauliflower  | Lima bean      | Prunes         | Watermelon     |
| Cherries     | Mango          | Pumpkin        | Winter squash  |
| Chicory      | Muskmelon      | Radicchio      | Zucchini       |
|              |                | Rosemary       |                |

**DISEASES CONTROLLED:**

- |                      |                |
|----------------------|----------------|
| Alternaria leaf spot | Phoma          |
| Anthraxnose          | Phytophthora   |
| Botrytis             | Powdery mildew |
| Downy mildew         |                |
| Fusarium             |                |

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

ARMICARB® 100-F is for use on residential lawns and other turf grass sites.

**FOR USE ON:**

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



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**DISEASES CONTROLLED**

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

**CALIFORNIA REGISTERED USES:**

Powdery mildew on the following crops:

- Acorn Squash
- Apples
- Cucumber
- Grapes
- Pumpkin
- Rose
- Strawberries
- Summer Squash
- Zucchini

**NOTICE**

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quantity of this product involved. The Buyer and all users are deemed to have accepted the terms of this Notice, which may be varied only by agreement in writing, signed by a duly authorized representative of Church & Dwight Co., Inc.