



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

## ACTIVE INGREDIENT:

Potassium Bicarbonate	. 85.00%
OTHER INGREDIENTS	. 15.00%
TOTAL	. 100.00%

# KEEP OUT OF REACH OF CHILDREN CAUTION

# PRECAUTIONARY STATEMENTS Hazards 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 immediately for 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 BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND COMPLETE DIRECTIONS FOR USE.

# PERSONAL PROTECTIVE EQUIPMENT (PPE)

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 exist, 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.

# 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.

# AD 070110

#### EPA Reg. No. 5905-541

EPA Est. No.: First letters of product batch code indicate producing establishment: 5905-AR-001=WA; 5905-GA-001=CG; 5905-IA-001=D; 5905-CA-001=KC

NET WEIGHT: 5 Lbs. (2.27 kg)

**Manufactured For** 

# HELENA CHEMICAL COMPANY

225 SCHILLING BOULEVARD, SUITE 300 COLLIERVILLE, TENNESSEE 38017

PF-3131-7





# PERSONAL PROTECTIVE EQUIPMENT (PPE)

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- · Long-sleeved shirt and long pants
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### **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.

# **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 sur Final spray solution should not be below 7.0 pH.

**SPRAY APPLICATION METHOD:** <u>Do not apply this</u> calibrated sprayer and check the calibration frequently

**IMPORTANT:** Read the entire label before using **ECO**or Extension Service Specialist for additional informatior

# MIXII

**ECO-MATE® ARMICARB® "O"** must be diluted with of product and water.

- Fill tank with 1/2 to 3/4 of the selected volume of w or hydraulic agitation.
- 2. Slowly add the required amount of ECO-MATE® Al
- 3. Continue to fill the tank with water to the desired vo

Some tank mixes may produce spray mixes that are ir ANY PESTICIDE, THE ADDITION OF SPRAY ADJPHYTOTOXICITY TO THE FOLIAGE AND/OR FRU

# APP

Start application at first sign of disease. For best prote able for disease development. Shorten the interval duri

For appropriate crops, **ECO-MATE® ARMICARB® "O** tering inoculum.

FIELD APPLICATION: (California registered uses are. Mix at a rate of 2.5 to 5.0 pounds of ECO-MATE® ARN wet stems and foliage of plants. Apply a minimum of 2 can vary depending upon plant type and stage of de depend upon disease pressure. Repeat application at 1 5-7 days during periods of weather favorable to ful ARMICARB® "O" PER 100 GALLONS OF WATER. Dr. Spray solution should be applied within 12 hours GREENHOUSE APPLICATION: (California registered

Mix at a rate of 2.5 to 5 pounds of **ECO-MATE® ARM**I wet stems and foliage of plants. Spray volume per uni Use minimum of 10–20 gallons of water per 1/10 acre will depend upon disease pressure. Repeat application every 5–7 days during periods of weather favorable to **ARMICARB® "O"** PER 100 GALLONS OF WATER. Dr Spray solution should be applied within 12 hours

TURF APPLICATION: (California registered uses are I. Mix at a rate of 0.92 oz. to 1.84 oz. in 2.5 gallons of wa gallons per acre. Uniform and complete coverage of the tion and frequency of application will depend upon di Increase frequency of applications every 5-7 days durin OF 1.84 OZ. ECO-MATE® ARMICARB® "O" PER 2.5 spray solution on site. Spray solution should be applications are supported by the control of the support of the support

ORNAMENTAL APPLICATIONS: (California registere ECO-MATE® ARMICARB® "O" is recommended for us and Residential Landscapes, Interiorscapes, Nursery, in a field system: Mix at a rate of 2.5 to 5 pounds o solution to thoroughly wet stems and foliage of pla Ornamentals are produced in a Greenhouse sys 100 gallons of water. Use a minimum of 10–20 gallo systems, spray volume per acre/sq. ft. of treatment m and frequency of application will depend upon dise



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.

ECO-MATE® ARMICARB® "O" is applied using a sufficient volume of water to insure complete coverage of all stems and foliage.

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.

- 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- to 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 4,350 sq. ft. Concentration of spray solution and frequency of application will depend upon disease pressure. Repeat application at 10- to 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.** 

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

Mix at a rate of 0.92 oz. to 1.84 oz. in 2.5 gallons of water. Apply mixed spray solution at a rate of 2.5 gallons per 1,000 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- to 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. ECO-MATE® ARMICARB® "O" PER 2.5 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.

**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 4,350 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- to 14-day intervals or as needed.

Increase frequency of applications to every 5-7 day 5 POUNDS OF **ECO-MATE® ARMICARB® "O"** I unused spray solution on site. **Spray solution sh** 

AGRICULTURAL APPLICATIONS: (California reg ECO-MATE® ARMICARB® "O" is recommende Applications.

PHI: Preharvest Interval zero (0) days require

# FOR USE ON:

CROPS		DISEASES
Alfalfa	Control	Phoma (s Colletotric Peronosp Botrytis (s Erysiphe
Almonds	Control	Gloeospo Podospha Sphaeroth Monilinia
Apples	Control	Neofahrae Glomerell Alternaria Podospha Phoma (fr Botrytis (f Elsinoe (s Colletotric Monilinia Schizothy
Apricots	Control	Alternaria Botrytis (g Podospha Sphaeroth Monilinia
Avocado	Control	Alternaria Sphaceloi Glomerell
Barley	Control	Erysiphe ( Septoria (
Beans (Asparagus, Dry Beans, Kidney Beans, Lima Beans, Snap Beans, Scarlet Runner)	Control	Erysiphe ( Colletotric Botrytis ( Ascochyta Alternaria Erysiphe a Sphacelor

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n high water mark. Do not

. Only protected handlers ncy responsible for pesti-

170. This standard cond handlers of agricultural It also contains specific PE) and restricted-entry ection Standard.

at involves contact with socks.

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container tightly closed

dust. Store in a labeled

ed waste disposal facility. if available. Completely, or, if allowed by State

TROL OF A VARIETY OF IOUSE AND NURSERY



erage of all stems and foliage.

or best results, use a properly

Agricultural Experiment Station nal requirements or restrictions.

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SPRAY TANK MAY CAUSE

conditions are no longer favorve humidity.

g foliage to decrease overwin-

ed spray solution to thoroughly y volume per acre of treatment 1 frequency of application will quency of application to every 5 POUNDS OF **ECO-MATE®** unused spray solution on site.

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and frequency of application to se frequency of application to 5 POUNDS OF **ECO-MATE®**unused spray solution on site.

pallons per 1,000 sq. ft., or 109 s. Concentration of spray solul4-day intervals or as needed. DO NOT EXCEED A MIX RATE ay solution. Dispose of unused

use, Shadehouse, Commercial Ornamentals are produced s of water. Apply mixed spray d spray solution per acre. If -MATE® ARMICARB® "0" in 1/10 acre. In both production f development. Concentration I-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 spray 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. ARMICARB® "0" per 100 Gal. Water
Alfalfa	Control	Phoma (spring black stem and leaf spot) Colletotrichum (anthracnose) Peronospora (downy mildew) Botrytis (shoot and flower blight) Erysiphe (powdery mildew)	2.5-5.0
Almonds	Control	Gloeosporium (anthracnose, kernel rot) Podosphaera (powdery mildew) Sphaerotheca (powdery mildew) Monilinia (blossom brown rot)	2.5-5.0
Apples	Control	Neofahraea (northeastern anthracnose) Glomerella (spot anthracnose) Alternaria (leaf spot, end rot, fruit rot) Podosphaera (powdery mildew) Phoma (fruit rot) Botrytis (fruit rot) Elsinoe (spot anthracnose) Colletotrichum (fruit anthracnose) Monilinia (brown rot) Schizothyrium (fly speck)	2.5-5.0
Apricots	Control	Alternaria (blossom end rot, fruit spot) Botrytis (green fruit rot, gummosis) Podosphaera (powdery mildew) Sphaerotheca (powdery mildew) Monilinia (brown rot, blossom blight)	2.5-5.0
Avocado	Control	Alternaria (fruit rot) Sphaceloma (spot anthracnose) Glomerella (anthracnose)	2.5-5.0
Barley	Control	Erysiphe (powdery mildew) 2.5- Septoria (leaf blight, leaf spot)	
Beans (Asparagus, Dry Beans, Kidney Beans, Lima Beans, Snap Beans, Scarlet Runner)	Control	Erysiphe (powdery mildew) Colletotrichum (anthracnose) Botrytis (gray mold blight) Ascochyta (leaf and pod spot) Alternaria (leaf spot) Erysiphe and Microsphaera (powdery mildew) Sphaceloma (spot anthracnose)	2.5-5.0

CROPS		DISEAS
Blueberries	Control	Gloeos Glome Botryti Septor Phoma Alterna Monilir Micros
Brassica Crops: (Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Chinese Cabbage, Kale, Kohlrabi, Mustard Greens, Radicchio, Turnip)	Control	Phoma Botryti. Peronc Alterna Erysiph Colletc
Caneberries: (Blackberry, Gooseberry, Raspberry, Huckleberry)	Control	Peronc Gloeoc Septor Micros Botryti Pseudo Sphace Gloeos Monilir
Cherries	Control	Botryti: Alterna Podosi Monilin
Citrus	Control	Glome Alterna Oidium Botryti Elsinoe Gloeos Gloeoc
Cucumber	Control	Colletc Alterna Pseudo Ascocl Septor Erysiph Botryti Gloeos



OO NOT EXCEED A MIX RATE OF nused spray solution. Dispose of **Ition.** 

use, Orchard, Nursery, and Field

RATE: LBS. ARMICARB® "0" per 100 Gal. Water
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CROPS		DISEASES	RATE: LBS. ARMICARB® "0" per 100 Gal. Water
Blueberries	Control	Gloeosporium (anthracnose) Glomerella (anthracnose, berry rot) Botrytis (botrytis blight, blossom, fruit, twig canker) Septoria (leaf spot) Phoma (phoma canker) Alternaria (canker, leaf spot, berry rot) Monilinia (brown rot, mummy berry) Microsphaeria (powdery mildew)	2.5-5.0
Brassica Crops: (Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Chinese Cabbage, Kale, Kohlrabi, Mustard Greens, Radiochio, Turnip)	Control	Phoma (blackleg, leaf spot) Botrytis (gray mold blight) Peronospora (downy mildew) Alternaria (gray leaf spot, black leaf spot) Erysiphe (powdery mildew) Colletotrichum (anthracnose)	2.5-5.0
Caneberries: (Blackberry, Gooseberry, Raspberry, Huckleberry)	Control	Peronospora, Plasmopara (powdery mildew) Gloeodes (sooty blotch) Septoria (leaf spot) Microsphaera, Sphaerotheca, Phyllactinia (powdery mildew) Botrytis (gray mold rot, coral spot) Pseudopeziza, Glomerella (anthracnose, spot anthracnose) Sphaceloma, Elsinoe (spot anthracnose) Gloeosporium (gray bark, anthracnose) Monilinia (brown rot)	2.5-5.0
Cherries	Control	Botrytis (fruit rot) Alternaria (leaf spot, fruit rot) Podosphaera (powdery mildew) Monilinia (blossom rot, brown rot, seedling, twig, shoot leaf blight)	2.5-5.0
Citrus	Control	Glomerella (anthracnose) Alternaria (brown spot blight, fruit blight, tar spot, black rot) Oidium (powdery mildew) Botrytis (gray mold rot) Elsinoe (spot anthracnose) Gloeosporium (anthracnose, fruit rot) Gloeodes (sooty blotch)	2.5-5.0
Cucumber	Control	Colletotrichum (anthracnose) Alternaria (leaf blight, leaf spot) Pseudoperonspara (downy mildew) Ascochyta (leaf spot) Septoria (leaf spot) Erysiphe, Sphaerotheca, Leveillula (powdery mildew) Botrytis (fruit rot) Gloeosporium (spot anthracnose)	2.5-5.0

CROPS		DISE
unura		ופוע
Eggplant	Control	Coli Alte Peri Boti Asc Sep Erys
Endive, Chicory, Escarole	Control	Brei Alte Erys Boti
Grape	Control	Plas Coli Gloi Sep Unc Alte Boti Pho Elsii
Herbs: Basil Oregano Rosemary Sage Thyme	Control	Coli Erys Erys Peri Erys Boti
Hops	Control	Coll Pse Sep Erys
Lettuce	Control	Mar Brea Alte Sep Erys Bota
Mango	Control	Gloi Sep Oidi Elsii
Melons: (Cantaloupe, Crenshaw, Honeydew, Muskmelon, Watermelon)	Control	Coli Alte Pse Sep Erys
Nectarine	Control	Poc Moi

	RATE: LBS. ARMICARB® "O' per 100 Gal. Water
	2.5-5.0
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< rot)	2.5-5.0
	2.5-5.0

CROPS		DISEASES	RATE: LBS. ARMICARB® "O per 100 Gal. Water
Eggplant	Control	Colletotrichum, Gloeosporium, Glomerella (anthracnose) Alternaria (early blight) Peronospora (downy mildew) Botrytis (gray mold rot) Ascochyta (leaf spot) Septoria (leaf spot) Erysiphe (powdery mildew)	2.5-5.0
Endive, Chicory, Escarole	Control	Bremia (downy mildew) 2.5–5.0 Alternaria (leaf spot) Erysiphe (powdery mildew) Botrytis (gray mold rot)	
Grape	Control	Plasmopara (downy mildew) Colletotrichum (fruit anthracnose) Glomerella (anthracnose) Septoria (leaf spot) Uncinula (powdery mildew) Alternaria (fruit spot) Botrytis (gray mold rot) Phoma (fruit rot) Elsinoe (spot anthracnose, bird's eye rot)	2.5-5.0
Herbs: Basil Oregano Rosemary Sage Thyme	Control	Colletrichum (black spot) Erysiphe (powdery mildew) Erysiphe (powdery mildew) Peronospora (downy mildew) Erysiphe (powdery mildew) Botrytis (gray mold blight)	2.5-5.0
Hops	Control	Colletotrichum, Glomerella (anthracnose) 2.5–5.0 Pseudoperonospora (downy mildew) Septoria (leaf spot) Erysiphe, Sphaerotheca (powdery mildew)	
Lettuce	Control	Marssonina (powdery mildew) Bremia (downy mildew) Alternaria (leaf spot) Septoria (leaf spot) Erysiphe (powdery mildew) Botrytis (gray mold rot)	2.5-5.0
Mango	Control	Glomerella (anthracnose) Septoria (leaf spot) Oidium (powdery mildew) Elsinoe (spot anthracnose)	2.5-5.0
Melons: (Cantaloupe, Crenshaw, Honeydew, Muskmelon, Watermelon)	Control	Colletotrichum, Marssonia (anthracnose) Alternaria (leaf blight, black mold, leaf spot) Pseudoperonospora (downy mildew) Septoria (leaf spot) Erysiphe (powdery mildew)	2.5-5.0
Nectarine	Control	Podospheara, Sphaerotheca (powdery mildew) Monillinia (twig blight, brown rot)	2.5-5.0

CROPS		DISEASES	RATE: LBS. ARMICARB® "0" per 100 Gal. Water
Okra	Control	Colletotrichum (anthracnose, pod spot) Ascochyta, Alternaria Erysiphe (powdery mildew) Botrytis (pod spot)	2.5-5.0
Peas	Control	Colletotrichum (leaf and pod spot, anthracnose) Peronospora (downy mildew) Ascochyta (leaf blight) Alternaria (leaf blight) Erysiphe (powdery mildew) Botrytis (gray mold rot)	2.5-5.0
Peaches	Control	Podospheara, Sphaerotheca (powdery mildew) Botrytis (gray mold) Monilinia (blossom and twig blight, brown rot) Glomerella (anthracnose rot)	2.5-5.0
Pears	Control	Neofabracea (northwestern anthracnose) Elsinoe (spot anthracnose) Phoma (fruit rot) Podosphaera (powdery mildew) Botrytis (blossom and twig blight) Alternaria (fruit rot) Gloeodes (sooty blotch) Monilinia (brown rot, blossom rot) Glomerella (anthracnose)	2.5-5.0
Pecans	Control	Glomerella (anthracnose) Septoria (leaf spot) Microsphaera (powdery mildew) Elsinoe (spot anthracnose)	2.5-5.0
Peppers	Control	Gloeosporium, Glomerella, Colletotrichum (spot and fruit anthracnose, fruit rot, ripe rot) Peronospora (downy mildew) Ascochyta (leaf spot) Leveillula (powdery mildew) Alternaria (black rot, early blight) Phoma (fruit rot) Botrytis (gray mold rot)	2.5-5.0
Pistachio	Control	Botrytis (shoot blight) Septoria (leaf spot)	2.5-5.0
Plums, Prunes	Control	Botrytis (blossom and twig blight, fruit rot) Alternaria (fruit rot) Monilinia (blossom blight, twig blight, brown rot) Septoria (leaf spot, shot hole) Podosphaera (powdery mildew)	2.5-5.0

CROPS		DISEASES
Potatoes	Control	Gloeosporium (ar Colletotrichum (b Alternaria (early b Ascochyta (leaf s Erysiphe, Oidium Botrytis (gray mo
Spinach	Control	Colletotrichum (a Peronospora (do
Squash: (Acorn, Pumpkin, Summer, Winter, Zucchini)	Control	Colletotrichum (a Gloeosporium (sr. Alternaria (fruit ro Pseudoperonosp Ascochyta, Septc Erysiphe, Sphaer Phoma (fruit rot, : Botrytis (gray mo
Strawberry	Control	Colletotrichum (a Gloeosporium (ar Botrytis (gray mo Sphaerotheca (po Peronospora (do
Sweet Potato	Control	Alternaria, Septor Botrytis (gray mo
Tomatoes	Control	Glomerella, Colle Alternaria (early t Botrytis (gray mo Peronospora (do Phoma (fruit rot) Ascochyta, Septc Erysiphe, Leveillu
Walnut	Control	Gnomonia (anthra Ascochyta (ring s Alternaria (nut ma Phyllactinia, Micr
Wheat	Control	Alternaria (black l Septoria (leaf and Ascochyta (leaf s Colletotrichum (a Erysiphe (powder Sclerophtora (do



E: LBS. ARMICARB® "O per 100 Gal. Water
2.5-5.0
2.5-5.0
2.5-5.0
2.5-5.0
2.5-5.0
2.5-5.0
2.5-5.0
2.5-5.0

CROPS		DISEASES	RATE: LBS. ARMICARB® "0" per 100 Gal. Water
Potatoes	Control	Gloeosporium (anthracnose) Colletotrichum (black dot disease) Alternaria (early blight) Ascochyta (leaf spot) Erysiphe, Oidium (powdery mildew) Botrytis (gray mold rot, shoot blight)	2.5-5.0
Spinach	Control	Colletotrichum (anthracnose) Peronospora (downy mildew)	2.5-5.0
Squash: (Acorn, Pumpkin, Summer, Winter, Zucchini)	Control	Colletotrichum (anthracnose) Gloeosporium (spot anthracnose) Alternaria (fruit rot, leaf blight) Pseudoperonospora (downy mildew) Ascochyta, Septoria (leaf spot) Erysiphe, Sphaerotheca (powdery mildew) Phoma (fruit rot, stem rot, leaf spot) Botrytis (gray mold,fruit rot)	2.5-5.0
Strawberry	Control	Colletotrichum (anthracnose, fruit anthracnose) Gloeosporium (anthracnose, spot anthracnose) Botrytis (gray mold blight) Sphaerotheca (powdery mildew) Peronospora (downy mildew)	2.5-5.0
Sweet Potato	Control	Alternaria, Septoria (leaf spot) Botrytis (gray mold rot)	2.5-5.0
Tomatoes	Control	Glomerella, Colletotrichum (anthracnose, black dot disease) Alternaria (early blight, black mold, fruit rot, nailhead spot rot) Botrytis (gray mold rot, ghost spot) Peronospora (downy mildew) Phoma (fruit rot) Ascochyta, Septoria (leaf spot) Erysiphe, Leveillula, Oidiopsis, Oidium (powdery mildew)	2.5-5.0
Walnut	Control	Gnomonia (anthracnose) Ascochyta (ring spot) Alternaria (nut mold) Phyllactinia, Microsphaera, Erysiphe (powdery mildew)	2.5-5.0
Wheat	Control	Alternaria (black head mold, black point) Septoria (leaf and glume blotch) Ascochyta (leaf spot) Colletotrichum (anthracnose) Erysiphe (powdery mildew) Sclerophtora (downy mildew)	2.5-5.0

TURF APPLICATION: (California registered uses are ECO-MATE® ARMICARB® "O" is recommended for u and other commercial turf grass sites.

# PHI: Preharvest Interval zero (0) days required

FOR USE ON:

Bentgrass Bluegrass, Kentucky Bermudagrass Centipedegrass

**DISEASES CONTROLLED** 

Alternaria leaf spot Ascochyta blight Anthracnose Downy mildew

ORNAMENTAL APPLICATIONS: (California registere PHI: Preharvest Interval zero (0) days required for

#### **PLANT TYPES**

Annual and perennial flowers Woody and ornamental shade trees

#### FOR USE ON:

Citrus

Coleus

Ageratum Crape Myrtle Ajuga Crassula Almond-Ornamental Croton Alyssum Delphinium Andromeda . Dianthus Aphelandra Dizygotheca Apple-Ornamental Dogwood English Ivy Apricot-Ornamental Artemisia Episcia Aster Euonymus Azalea Fern Forsythia Boxwood Calendula Gazania Carnation Geranium Centaurea montana Gladiolus Gloxinia Cherry-Ornamental Chrysanthemum Gypsophilia Cineraria Hawthorn

Columbine Holly Coral Bells Hoya (Heuchera) Hydrangea

# **DISEASES CONTROLLED**

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

Fusarium Helminthosporium le

Heliopsis scabra

Hibiscus



RATE: LBS. ARMICARB® "O" per 100 Gal. Water		
2.5-5.0		
2.5-5.0		
2.5-5.0		
2.0 0.0		
2.5-5.0		
2.5-5.0		
2.5-5.0		
2.5-5.0		
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 Bluegrass, Kentucky, annual Fescue, fine, tall, chewings, red St. Augustinegrass Bermudagrass Centipedegrass Ryegrass, perennial, annual Zoysiagrass

**DISEASES CONTROLLED** 

Alternaria leaf spot Helminthosporium leaf spot Ascochyta blight Septoria leaf spot Anthracnose Downy mildew Powderv mildew

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

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

Crape Myrtle

#### **PLANT TYPES**

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

#### FOR USE ON: Ageratum

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

Pittosporum

Ink spot

# **DISEASES CONTROLLED**

(Heuchera)

Alternaria blight

Anthracnose Didvmellina leaf spot Ovulinia sp. Ascochyta blight Diplodia tip blight Phomopsis blight Entomosporium leaf spot Black Spot Powdery mildew Botrytis blight Ramularia leaf spot Fusarium Botrytis gray mold

Corynespora leaf spot

Hydrangea

Helminthosporium leaf spot Ray blight

# **CALIFORNIA REGISTERED USES:** PHI: Preharvest Interval zero (0) days require

For use on: Acorn squash Cucumber Almond\* Endive Apples\* Escarole Apricot\* Grapes Cantaloupe Honevdew Cherries\* Lettuce Chicory Muskmelon Crenshaw melon Peach\*

\*Ornamental and fruiting varieties

### **DISEASES CONTROLLED**

Plum-Ornamental

Scab

Septoria leaf spot

Downy mildew (Agricultural Crops Only) Powdery mildew

# CONDITIONS AND LIMITATIO

# Read the Conditions of Sale - Warranty and Lii are not acceptable, return the product, unope

The directions on this label are believed to be reliab crop to which the product is applied may result fro follow the label directions or good application pri "Company") or seller. In addition, failure to follow I Company warrants that this product conforms to tl to in the directions for use subject to the factors no other warranties or representations of any kind, ex chantability or fitness for any particular purpose, ar

The exclusive remedy against the Company for any at Helena Chemical Company's election, one of the

- 1. Refund of the purchase price paid by buyer or u
- 2. Replacement of the product used

To the extent allowed by law, the Company shall no rect, incidental, or consequential damages or exp Company and the seller offer this product and the of warranty, liability and remedies.

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esidential lawns, golf course,

St. Augustinegrass Zoysiagrass

Septoria leaf spot

Plum-Ornamental Poinsettia

Poppy Pothos Primrose Privet Protea

Pulmonaria

Pyracantha Rhododendron Rose Rose-of-Sharon

Prune-Ornamental

Schefflera Snapdragon Statice

Tree Ivy Verbena Viburnum

Violet Zinnia

Scab Septoria leaf spot

# **CALIFORNIA REGISTERED USES:**

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

For use on: Acorn squash Cucumber Pear Spinach Almond\* Endive Pepper Strawberries Apples\* Escarole Pistachio Summer Squash Plum\* Apricot\* Grapes Tomato Cantaloupe Honevdew Prune\* Walnut Cherries\* Lettuce Pumpkin Watermelon Chicory Muskmelon Radicchio Winter squash Crenshaw melon Peach\* Zucchini Rose

\*Ornamental and fruiting varieties

### 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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ARMICARB® "O" is a registered trademark of Church & Dwight Company and is used under license.





# A BROAD SPECTRUM, CONTACT FOLIAI CROPS, TERRESTRIAL AND ORNAMEN

ACTIVE INGREDIENT:
Potassium Bicarbonate.....OTHER INGREDIENTS......TOTAL.

# **KEEP OU**

# PR HAZARDS T

Harmful if swallowed. Causes moderate e water after handling.

IF SWALLOWED:	<ul> <li>Call poison cont</li> <li>Have person drir</li> <li>Do not induce vo</li> <li>Do not give anyt</li> </ul>
IF IN EYES:	<ul><li>Hold eye open a</li><li>Remove contact</li><li>Call a poison co</li></ul>

Have the product container or label with y also contact 1-800-424-9300 for emergen

# SEE INSIDE BOOKLET FOR ADDITION

D 070110

EPA Reg. No. 5905-541
EPA Est. No.: First letters of product bat 5905-AR-001=WA • 5905-GA-001=CG •

HELEN
225 SCHILLING BOULEVA

Job #57881

pinach rawberries ummer Squash mato alnut atermelon inter squash ucchini

# NTY DIES

using this product. If the terms funded.

ontrol of pests and/or injury to the reather conditions or the faillure to Helena Chemical Company (the lals, man or the environment. The onably fit for the purpose referred ompany. The Company makes no Iding no implied warranty of mer-

of this product shall be limited to,

npany are waived for special, indito, loss of profits or income. The g conditions of sale and limitation

se.



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

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

# KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENTS
HAZARDS 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 immediately for advice.			
HOT LINE NUMBER				
Hove the product container or label with you when calling a poison control contar or dector or going for treatment. You may				

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 BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND COMPLETE DIRECTIONS FOR USE.

AD 070110

EPA Reg. No. 5905-541

EPA Est. No.: First letters of product batch code indicate producing establishment: 5905-AR-001=WA • 5905-GA-001=CG • 5905-IA-001=DI • 5905-CA-001=KC

NET WEIGHT: 5 Lbs. (2.27 kg)

**Manufactured For** 

**HELENA CHEMICAL COMPANY** 

225 SCHILLING BOULEVARD, SUITE 300 • COLLIERVILLE, TENNESSEE 38017

Job #57881