

GALLONS

E. P. A. Reg. No. 1109-25-AA  
E. P. A. Establishment No. 1109-TN-1

## SPRAYING RECOMMENDATIONS



U. S. PATENT NO. 3262846

|                    |                                       |     |
|--------------------|---------------------------------------|-----|
| ACTIVE INGREDIENTS | Copper salts of fatty and rosin acids | 48% |
|                    | (Copper as metallic)                  | 4%  |
| INERT INGREDIENTS  |                                       | 52% |

### CAUTION:

**CITIES SERVICE COMPANY**  
**COPPERHILL OPERATIONS**  
**COPPERHILL, TENN SEE**

Pour Citcop 4E into spray tank water with agitation to form best emulsion. After emulsion is formed, agitation is not required. For garden sprays, 2 teaspoons per gallon of water equal one quart of Citcop 4E per 100 gallons of water. Use highest dilution shown.

#### FRUITS AND NUTS

**CITRUS (Florida) - Melanose** - Mix 1½ to 2 gallons Citcop 4E in 100 gallons of water and apply to one acre by aircraft. Use 1 gallon in 100 gallons of water if applied by dilute ground spray equipment. Apply 1 to 3 weeks after petal fall. Do not mix Citcop 4E with oil and apply on citrus.

**GRAPES - Downy mildew, and black rot** - For dilute spray mix 1 quart Citcop 4E per 100 gallons water, or for concentrate sprays mix 2 to 3 quarts Citcop 4E in 20 to 250 gallons water and apply to one acre. For best control begin treatment when new growth reaches ½ inch and repeat at 7 to 14 day intervals throughout the growing season. *Note:* Certain Vinifera and French Hybrid varieties may be slightly sensitive to copper sprays resulting in marginal leaf burn. Before spraying these varieties, consult your State Experiment Station or make test sprays.

**WALNUTS - Blight** - Use 2 quarts per 100 gallons and apply 500 gallons per acre in mature orchards. Apply first in early prebloom and the second time when 10 to 20% of the pistillate (not catkins) blooms are showing. When rain threatens, additional application made before or immediately after the rain are important.

#### VEGETABLES

**BEANS (green snap and lima): Bacterial blights** - Use 2 quarts Citcop 4E in 5 to 100 gallons water and apply to one acre. Begin treatment when disease first appears and continue at 7 to 10 day intervals through harvest. During wet weather use 7 day intervals.

**CARROTS - Leaf spot (North Central States Only)** - Mix 2 to 3 quarts Citcop 4E in 100 gallons of water and apply to one acre. Begin treatment 2 weeks before disease normally appears for best preventive control, or make first application when disease first appears. Apply at 7 to 10 day intervals after first application.

**CELERY - Early blight** - Use 2 quarts Citcop 4E per acre in 60 to 100 gallons of water. Begin 2 weeks before disease normally appears. Repeat as needed to prevent damage.

**CUCURBITS (CUCUMBERS, CANTALOUPE OR MUSKMELONS, SQUASH, PUMPKINS, WATERMELONS) - Powdery mildew, Alternaria blight** - Mix 2 quarts Citcop 4E in 100 gallons of water and apply to one acre. Begin treatment 2 weeks before disease normally appears for best preventive control, or make first application when disease first appears. Repeat at 7 to 10 day intervals.

**CUCUMBERS - Downy mildew (Southeastern States Only), Angular leaf spot (North Central States, California)** - Same as for powdery mildew of cucurbits.

**LETTUCE - Downy mildew** - Use 2 quarts Citcop 4E per acre in 50 to 80 gallons of water. Begin when disease just appears and repeat as needed to suppress disease.

**ONIONS - Downy mildew** - Mix 2 quarts Citcop 4E per acre in 50 to 80 gallons of water. Begin treatment when disease just appears and repeat as needed to suppress disease.

**PEPPERS - Bacterial leaf spot (Southeastern States Only)** - Mix 2 to 3 quarts Citcop 4E in 100 gallons of water and apply to one acre. Begin treatment 2 weeks before disease normally appears for best preventive control, or make first application when disease first appears. Apply at 7 to 10 day intervals after first application.

**TOMATOES - Early blight, Septoria leaf spot, Bacterial spot** - Mix 2 to 3 quarts Citcop 4E in 100 gallons of water and apply to one acre. Begin treatment 2 weeks before disease normally appears for best preventive control. Repeat every 7 to 10 days or as needed.

**CORN (FIELD) - Southern leaf blight** - 2 to 3 quarts Citcop 4E per acre in sufficient water for adequate coverage. Apply 20 to 50 gallons per acre by ground at 10 to 20 day intervals after first appearance of disease. **COLORED AND NAVY BEANS - Blight** - 2 to 3 quarts Citcop 4E for ground application in 50 gallons of water per acre. Apply normally appears. Follow first spray. **PEANUTS: Leaf spot** - Mix 2 to 3 quarts Citcop 4E per acre, or use a tank-mix of 2 to 3 quarts Citcop 4E to 25 gallons water for ground application. Disease normally appears for best preventive control. Repeat at 14 day intervals. **SUGAR BEETS: Leaf spot** - Mix 3 quarts Citcop 4E per acre, or use a tank-mix of 3 quarts Citcop 4E to 10 to 50 gallons of water per acre for ground application. Disease normally appears for best preventive control. Repeat at 10 to 14 day intervals.

**PINE (AUSTRIAN AND PONDEROSA) - Needle cast** - 2 to 3 quarts Citcop 4E in 100 gallons of water. Apply when trees are thoroughly wet with spray. Apply at 10 to 14 day intervals. Application 3 weeks later.

**SYCAMORE - Anthracnose** - Mix 2 to 3 quarts Citcop 4E in 100 gallons of water. Application just before buds begin to break. Repeat at 10 to 14 day intervals. Consult State Agricultural Experiment Station for additional information as to timing, rate of application, etc. Citcop 4E is compatible with Brady phosphates, and wettable sulfur. Do not mix with other fungicides and insecticides. Test for compatibility of all products used in mixtures.

**NOTICE TO BUYER - SELLER WITH THIS LABEL** - CHEMICAL DESCRIPTION ON THIS LABEL IS THE ONLY ONE STATED ON THIS LABEL ONLY UNDER NORMAL USE CONDITIONS OF THIS PRODUCT CONTRARY TO ANY OTHER CONDITIONS, OR UNDER ANY OTHER CONDITIONS; BUYER ASSUMES ALL RISKS AND WARRANTIES, EITHER EXPRESS OR IMPLIED.

**ACCEPTED**

UNDER THE FEDERAL INSECTICIDE, FUNGICIDE AND RODENTICIDE ACT FOR ECONOMIC POISON REGISTERED UNDER NO. 1109-25-AA

# SPRAYING RECOMMENDATIONS

Pour Citcop 4E into spray tank with water and dilute to form 1% emulsion. After emulsion is formed agitation is not required. For aerial application 2 teaspoons per gallon of water equal 1 part of Citcop 4E per 100 gallons of water. For best direction show.

## FRUITS AND NUTS

**CITRUS (Florida)** - Melonose - Mix 1 1/2 to 2 quarts Citcop 4E in 10 gallons of water and apply to one acre by aircraft. Use 1 gallon in 50 gallons of water if applied by dilute ground spray equipment. Apply 1 to 5 weeks after petal fall. Do not mix Citcop 4E with oil and apply on citrus.

**GRAPES** - Downy mildew and black rot - Dilute spray mix 1 quart Citcop 4E per 100 gallons water, or for concentrate sprays mix 2 to 3 quarts Citcop 4E in 20 to 250 gallons water and apply to one acre. For best control begin treatment when downy mildew reaches 1/2 inch and repeat at 7 to 14 day intervals throughout the growing season. Note: Certain Vinifera and French Hybrid varieties may be slightly sensitive to copper sprays resulting in marginal leaf burn. Before spraying these varieties consult your State Experiment Station or make test sprays.

**WALNUTS** - Blight - Use 2 quarts per 100 gallons and apply 500 gallons per acre in mature orchards. Apply first in early afternoon and a second time when 10 to 20% of the pycnospores (not catkins, blossoms are showing). When rain is within additional application made before or immediately after the rain are important.

## VEGETABLES

**BEANS (green snap and lima)** - Bacterial blights - Use 2 quarts Citcop 4E in 50 to 100 gallons of water and apply to one acre. Begin treatment when disease first appears and repeat at 7 to 10 day intervals through harvest. During wet weather use 7 day intervals.

**CARROTS** - Leaf spot (North Central States Only) - Mix 2 to 3 quarts Citcop 4E in 100 gallons of water and apply to one acre. Begin treatment 2 weeks before disease normally appears for best preventive control. Begin first application when disease first appears. Apply at 7 to 10 day intervals after first application.

**CELERY** - Early blight - Use 2 quarts Citcop 4E per acre in 100 to 150 gallons of water. Begin 2 weeks before disease normally appears. Repeat as needed to prevent damage.

**CUCURBITS (CUCUMBERS, CANTALOUPE, MUSKMELONS, SQUASH, PUMPKINS, WATERMELONS)** - Powdery mildew, Melonaria blight - Mix 2 quarts Citcop 4E in 100 gallons of water and apply to one acre. Begin treatment 2 weeks before disease normally appears for best preventive control. Begin first application when disease first appears. Repeat at 7 to 10 day intervals.

**CUCUMBERS** - Downy mildew (California and Florida) - Apply as directed to southern states. States, California - some a long period of time before beginning.

**LETTUCE** - Downy mildew - Use 2 quarts Citcop 4E per acre in 50 to 100 gallons of water. Begin when disease first appears and repeat as needed to control disease.

**ONIONS** - Downy mildew - Mix 2 quarts Citcop 4E per acre in 50 to 100 gallons of water. Begin treatment when disease first appears and repeat as needed to suppress disease.

**PEPPERS** - Bacterial leaf spot (Grafting States Only) - Mix 2 to 3 quarts Citcop 4E in 100 gallons of water and apply to one acre. Begin treatment 2 weeks before disease normally appears for best preventive control. Begin first application when disease first appears. Apply at 7 to 10 day intervals after first application.

**TOMATOES** - Early blight, Septoria leaf spot, Bacterial spot - Mix 2 quarts Citcop 4E in 100 gallons of water and apply to one acre. Begin treatment 2 weeks before disease normally appears for best preventive control. Begin first application when disease first appears.

## FIELD CROPS

**CORN (FIELD)** - Southern leaf blight (North Central States Only) - Use 2 quarts Citcop 4E per acre in sufficient water for adequate coverage, usually 3 to 5 gallons per acre by aircraft or 10 to 50 gallons per acre by ground equipment. Begin treatment when first spots appear. Apply at 10 to 20 day intervals after first application until corn is mature.

**COLORED AND NAVY BEANS** - Bacterial blight (Halo and Common) - Mix 2 quarts Citcop 4E for ground application in 50 gallons of water, or 2 quarts in 5 gallons of water for aerial application and apply to one acre. For best protective cover, begin spray 2 weeks before disease normally appears. Follow first spray every 7 to 10 days with 4 to 5 sprays.

**PEANUTS** - Leaf spot - Mix 2 to 3 quarts Citcop 4E in 10 to 25 gallons of water and apply to one acre, or use a tank-mix of 2 to 3 quarts Citcop 4E plus 2 to 10 lbs. of wettable or flowable sulfur in 10 to 25 gallons water for improved disease control. Begin treatment 2 weeks before disease normally appears for best preventive control, or make first application when disease is first noted. Repeat at 14 day intervals.

**SUGAR BEETS** - Leaf spot - Mix 3 quarts Citcop 4E in 10 to 50 gallons of water and apply to one acre, or use a tank-mix of 3 quarts Citcop 4E plus 2 lbs. of wettable or flowable sulfur in 10 to 50 gallons of water per acre for improved disease control. Begin treatment 2 weeks before disease normally appears for best preventive control, or make first application when disease appears. Apply at 10 to 14 day intervals after first application.

## ORNAMENTALS

**PINE (AUSTRIAN AND PONDEROSA)** - Needle blight (North Central States Only) - Mix 2 quarts Citcop 4E in 100 gallons of water (equal 4 teaspoons per gallon) and spray until needles are thoroughly wet with spray. Apply when new needles are just emerging. Make a second application 3 weeks later.

**SYCAMORE** - Anthracnose - Mix 2 quarts Citcop 4E in 100 gallons of water. Make first application just before buds begin to swell and repeat twice at 7 day intervals.

Consult State Agricultural Experiment Station or State Extension Service specialist for additional information as to timing, number and rate of application.

Citcop 4E is compatible with Bravo, Maneb, Captan, Phaltan, Iosaphene, Froilan, Dymaphosphates and wettable sulfur. Do not mix Citcop 4E with oil when applied to citrus. Use with other fungicides and insecticides with caution. Observe all cautions and limitations of all products used in mixtures.

**NOTICE TO BUYER - SELLER WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THIS LABEL AND IS REASONABLY FIT FOR PURPOSES STATED ON THIS LABEL ONLY WHEN USED IN ACCORDANCE WITH DIRECTIONS UNDER NORMAL USE CONDITIONS. THIS WARRANTY DOES NOT EXTEND TO USE OF THIS PRODUCT CONTRARY TO LABEL DIRECTIONS, OR UNDER ABNORMAL CONDITIONS, OR UNDER CONDITIONS NOT REASONABLY FORESEEABLE TO SELLER. BUYER ASSUMES ALL RISK OF ANY SUCH USE. SELLER MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED.**

ACCEPTED

UNDER THE FEDERAL INSECTICIDE FUNGICIDE AND PLANT QUARANTINE ACT FOR ECONOMIC PEST CONTROL ADMINISTRATION

acids 48%  
52%

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