

Brandt BCS Copper Fungicide

EPA Registered Basic Copper Sulfate Fungicide

Product Data Bulletin

Features

- Controls bacterial and fungal diseases
- Fine particle size will not clog nozzles

Copper is a standard for plant disease control and is irreplaceable for certain bacterial and fungus diseases. It is one of the most commonly recommended chemicals for safe, economical, broad spectrum disease protection on most crops. BRANDT BCS COPPER FUNGICIDE is made for convenience and effectiveness. It provides spray operators a dust-free product that mixes and sprays well and really sticks to the leaf. BRANDT BCS COPPER FUNGICIDE is a liquid formulation of Basic Copper Sulfate (neutral Copper). It contains 2.54 pounds per gallon of elemental copper expressed as metallic. This is equivalent to six pounds of most copper powders. The fine particle size (5 microns) improves sprayability by not clogging nozzles and strainers. BRANDT BCS COPPER FUNGICIDE controls many fungi and bacteria in citrus and vegetables such as scab, melanose, greasy spot and bacterial spot on tomatoes and peppers.

General Recommendations

FRUITS & NUTS

ALMONDS: *Brown Rot, Shot Hole*

Conventional Dilute Spray: Use 1/3 to 1/2 gallons of BRANDT BCS COPPER in 100 gallons of water and apply at 350 to 400 gallons of solution per acre. Bud sprays for control of Brown Rot and Shot Hole should be applied at pink bud through popcorn stage. Do not spray after trees are in leaf. As a dormant spray, apply December 15 to January 15. Repeat at 7 day intervals. Concentrate Spray: Use 5/6 to 1 gallon in 25 to 50 gallons of water per acre. Note: Use 1 gallon per acre through swelling buds and 5/6 gallons per acre in popcorn stage. With aerial spray during the dormant season, apply 1-1/3 to 2 gallons of BCS COPPER FUNGICIDE per acre in 20 gallons of water.

APRICOTS: *Brown Rot, Shot Hole*

Conventional Dilute Spray - Use 1/3 to 1/2 gallon BCS COPPER FUNGICIDE in 100 gallons of water per acre. As a dormant spray for control of Shot Hole disease, apply November 15 to January 15. Bud sprays for control of Brown Rot should be applied through swelling buds and popcorn stage. Do not spray when trees are in leaf. Concentrate Spray - Use 1-1/6 gallons in 100 gallons of water per acre and apply as above. Note: Use 1-1/6 gallons per acre through swelling buds and reduce to 1 gallon in popcorn stage. When bud blight is a problem, apply the maximum rate shown above after most of leaves have fallen in the fall, usually November and December but ahead of fall rains.

AVOCADOS: *Anthracoze, Blotch, Scab*

Use 1/3 gallon per 100 gallons of water per acre. Begin treatment when blossom buds open. Repeat at 4-week intervals for a total of 5 applications. Do not apply later than 140 days after bloom.

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Active Ingredient

Basic Copper Sulfate*	40.57%
CAS No. 1344-73-6	
Other Ingredients	59.43%
Total	100.00%

This product contains 2.54 lbs of metallic copper per gallon.

* Metallic copper equivalent = 21.94%

BERRIES (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries):

Anthracoze, Leaf and Cane Spot and Yellow Rust

Anthracoze - Use 1/3 gallon per 100 gallons of water per acre. Begin spraying when leaf buds begin to open. Repeat when flower buds show white and continue at 10 to 14 day intervals. Leaf and Cane Spot and Yellow Rust - In spring sprays, use 1/3 gallon per 100 gallons of water per acre and apply when leaf buds begin to open and repeat when flower buds show white. Also make a postharvest spray after pruning. Before fall rains begin use 2/3 gallon per 100 gallons of water per acre.

CHERRIES (Sour): *Brown Rot, Blossom Blight, Leaf Spot, Shot Hole*

Brown Rot, Blossom Blight - Use 1/2 gallon per 100 gallons of water per acre. Apply at popcorn and late bloom stages. In late bloom spray, add 5 lbs. of hydrated lime per 100 gallons of spray. Leaf Spot - Apply 1/2 gallon plus 5 lbs. hydrated lime per 100 gallons per acre applied at petal fall. Shot Hole - Use 2/3 to 5/6 gallons per 100 gallons of water and apply as a dormant spray.

CITRUS: *Brown Rot, Citrus Canker, Melanose, Scab, Greasy Spot and Pink Pitting*

Brown Rot - Use 1-1/3 pints per 100 gallons of water per acre. Apply at first indication of rain or first appearance of Brown Rot. Repeat as needed (minimum retreatment interval of 7 days) to protect during wet weather. Citrus Canker - Use 2 to 3 pints per 100 gallons of water per acre. Apply at first indication of rain or first appearance of Citrus Canker. Repeat as necessary (minimum retreatment interval of 7 days) to protect during wet weather. For Melanose, Scab, Greasy Spot and Pink Pitting of grapefruit - Use 1 to 2 pints per 100 gallons of water per acre by dilute spray. With aerial or concentrate sprayers, apply 1-1/5 gals. per acre diluted to the proper concentration with water as recommended for the specific type sprayer used. Do not use less than 10 gallons of spray per acre. For Scab control - Make two applications, one just before trees begin to flush and repeat at 2/3 petal fall. For Melanose control - Apply 1 to 3 weeks after petal fall. Repeat 4 weeks later if necessary. For Greasy Spot and Pink Pitting - Make a summer spray about July 15th. Sulfur may be included in sprays for Melanose and Scab. **CAUTION:** Do not apply in areas where copper injury is known to occur.

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BRANDT

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General Recommendations

FRUITS & NUTS

GRAPES: *Anthracoze, Black Rot, Downy Mildew*

Dilute Spray - Use 1/6 gallon per 100 gallons of water per acre. Make first application when new growth is 1/2 inch long and repeat every 10 to 14 days. Concentrate Spray - Use 1/3 to 1/2 gallon per acre in sufficient water for good coverage and apply as stated above.

OLIVES: *Leaf Spot (Peacock Spot)*

Dilute Spray - Use 1/3 to 1/2 gallon per 100 gallons of water per acre and apply in late October. Note: In areas with 10 inches or less rainfall per year, use only 1/6 gallon per 100 gallons of water. Concentrate Spray - Use 1 gallon per acre in not less than 40 gallons of water. Read and follow above note on rainfall limitation.

PEACHES & NECTARINES: *Brown Rot, Peach Blight (Shot Hole) and Leaf Curl*

Dilute Spray - Use 1/3 to 1/2 gallon per 100 gallons of water per acre. Concentrate Spray - Use 1-1/3 gallons per acre in 25 to 50 gallons of water. As a dormant spray for Leaf Curl and Peach Blight (Shot Hole) apply November 15 to December 15 before fall rains begin. Bud sprays for Brown Rot and Peach Blight (Shot Hole) should be applied before bud swell and in full pink bud stage. Do not apply after pink bud or after trees are in leaf as injury may occur. Note: To control Leaf Curl, application must be made before the foliage buds swell. Consult your State Agricultural Experiment Station. California Only - For Blight and Leaf Curl Control, 1-1/3 to 1-2/3 gallons in 20 gallons of water may be applied by aircraft to one acre during the dormant season. For peach bacterial diseases, apply 1/3 gallon per 100 gallons of water plus a sticker and apply during dormant season.

PEARS: *Fire Blight*

Dilute Spray - Use 6 fl. oz. per 100 gallons of water and apply 400 gallons mixed solution to give 1/2 lb. of metallic copper per acre. Concentrate Spray - Use 1/6 gallon per acre in sufficient water for good coverage. Apply at 10% bloom and repeat at 5 to 7 day intervals during bloom. DO NOT use on D'Anjou, Comice or Seckel varieties.

PLUMS & PRUNES: *Brown Rot, Shot Hole*

Dilute Spray - Use 1/3 to 1/2 gal. per 100 gallons of water per acre. For Shot Hole control, apply as a dormant spray in November or December before heavy fall rains begin. For Brown Rot control, apply at early green bud and full popcorn stages. Concentrate Spray - Use 1 gallon in 25 to 50 gallons of water per acre. California Only - For aircraft spray to control Shot Hole and Brown Rot Blossom Blight, apply 1-1/3 to 1-2/3 gallons in 20 gallons of water and apply to one acre during dormant season.

STRAWBERRIES: *Leaf Spot*

Use 1/3 to 1/2 gallon of concentrate per 100 gallons of water per acre. Use lower rate for moderate disease pressure and higher rate for severe. Apply prebloom and postbloom.

IMPORTANT: Overspraying may cause injury to tender foliage of peaches, almonds, apricots and some Japanese plums.

VEGETABLES AND FIELD CROPS

MIXING INSTRUCTIONS: Mix recommended amount of BRANDT BCS COPPER FUNGICIDE given for one acre in sufficient water for good coverage. With dilute ground sprayer, generally apply 100 to 150 gallons of spray solution per acre. With concentrate sprayer, generally apply 20 to 50 gallons of spray solution per acre. With aerial sprayers, generally apply 5 to 10 gallons of spray solution per acre, but do not apply less than 5 gallons of spray mixture per acre. Consult the manufacturer for recommended water volumes per acre for a given sprayer.

BEANS (Green & Dry): *Angular Leaf Spot, Anthracnose, Bacterial Blight, Downy Mildew*
Use 1/6 to 1/4 gallon per acre. Begin treatment when plants are about 5 inches tall and repeat at 7 day intervals.

BEETS: *Downy Mildew, Leaf Blights, Leaf Spots*

Use 1/3 gallon per acre. Begin when disease first appears and repeat every 10 days. Leaf Spots - Use 1/5 gallon per acre. Begin when plants are above ground in plant bed or before disease normally appears. Repeat at 7 to 10 day intervals in plant bed and field.

CARROTS: *Downy Mildew, Cercospora and Alternaria Leaf Blights*

Use 1/3 gallon per acre. Begin treatment when disease first appears and repeat at 7 to 10 day intervals.

CELERY: *Bacterial Blight, Early and Late Blight*

Use 1/3 gallon per acre. Treat every 7 days after emergence.

CUCURBITS (Cantaloupes, Cucumbers, Melons, Pumpkins, Squash): *Angular Leaf Spot, Anthracnose, Alternaria Leaf Spot, Bacterial Wilt, Downy and Powdery Mildews, Gummy Stem Blight, Leaf Spot, Scab*

Use 1/3 gallon per acre. Begin treatment when plants begin to vine and repeat every 7 to 10 days. Since the disease is likely to be more serious in high plant populations (40,000 or more plants per acre) spray every 5 days to protect fruit at all stages of development. Note: A ground application after planting, but before emergence, may help decrease infections of Angular Leaf Spot, Anthracnose and Alternaria Leaf Spot. Then follow above schedule after emergence. Note: Some Agricultural Experiment Stations recommend equal amount of hydrated lime when used on cucurbits. Lime when used on cucurbits may cause dwarfing of plants and reduce fruit set due to increased transpiration and defloration under some conditions. Consult your local Experiment Station for specific recommendations.

ONION: *Purple Blotch, Downy Mildew*

Use 1/3 gallon per acre. Begin when plants are 4 to 6 inches and repeat at 7 to 10 day intervals.

PEPPERS: *Anthracoze, Bacterial Spot, Early Blight, Cercospora Leaf Spot (Frogeye Spot), Downy Mildew*

Use 3/10 gallon per acre. Start sprays in seedbed and continue in field at 7 day intervals. Note: Disease control is critical during fruiting.

POTATOES: *Early and Late Blight*

Use 1/2 to 2/3 gallon per acre. Begin when plants emerge and repeat at 7 to 10 day intervals.

PEANUTS: *Cercospora Leaf Spot*

Use 3/10 gallon per acre. Repeat at 10 to 14 day intervals. Note: The addition of 2 lbs. flowable sulfur in a tank mix will enhance leaf spot control.

SPINACH: *Anthracoze, Cercospora Leaf Spot, Downy Mildew, White Rust*

Use 3/10 gallon per acre. Begin when disease first appears and repeat at 7 to 10 day intervals.

SUGAR BEETS: *Cercospora Leaf Spot*

Use 1/2 gallon per acre. Begin when disease first appears and repeat in 10 day intervals.

TOMATOES: *Anthracoze, Bacterial Spot, Bacterial Canker, Early and Late Blight, Leaf Mold, Nailhead Rust, Septoria and Stemphyllium Leaf Spot*

Use 1/5 gallon per acre. Begin in seedbed or field before disease appears. Repeat at 7 to 10 day intervals. Note: While the labeled rate is particularly effective against Bacterial Spot, a tank mix with Maneb used at the labeled rates controls a broad range of tomato diseases. Observe all cautions and limitations on the label of all products used in mixtures.