

MICRONIZED

BASIC COPPER SULFATE

FUNGICIDE

46923-9

05/24/2005

ACTIVE INGREDIENT:

Basic Copper Sulfate 99%
(Copper expressed as metallic ...53%)

INERT INGREDIENTS: 1%

Total 100%

KEEP OUT OF REACH OF CHILDREN

ACCEPTED

MAY 24 2005

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 46923-9

CAS number 1344-73-6

EPA Reg. Number 46923-9

EPA Est. Number 46923-NJ-01

1/6

WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail).

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

Warning: Causes substantial but temporary eye injury. Harmful if absorbed through the skin or inhaled. May cause skin sensitization reactions in certain individuals. Avoid contact with the skin, eyes or clothing. Avoid breathing dust.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

Long sleeve shirt and long pants

Shoes plus socks

Protective eye wear

Chemical resistant gloves made of any waterproof material.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d) (46), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

FIRST AID

If in eyes

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If inhaled

Move person to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call poison control center or doctor for further treatment advice.

If on skin or on clothing

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.

If swallowed

Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

HOT LINE SERVICE

Have the product container or label with you when calling a poison control center or doctor, or for going for treatment. You may contact 800-275-3924 for emergency medical information.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. For terrestrial uses do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not contaminate water by cleaning of equipment or disposal of wastes.

3/6

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.

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 reentry 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 24 hours.

PPE requirements 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 are:

Coveralls

Chemical resistant gloves made of any waterproof material.

Shoes and socks

Protective eye wear

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in a cool and dry place. Open dumping is prohibited. Do not reuse empty container. If container is damaged, place container in a plastic bag. Shovel any spills into plastic bag and seal with tape.

Container Disposal: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residues in application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If burned, stay out of smoke.

Pesticide Disposal: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.



Old Bridge Chemicals Inc.

P.O. Box 194 - Old Bridge, NJ 08857

4/6

CHEMIGATION

Refer to supplementary label for Use Directions for Chemigation. Do not apply this product through any irrigatic systems unless supplemental labeling on chemigation is followed. Supplemental labeling entitled:

SUPPLEMENTAL LABELING

BASIC COPPER SULFATE

EPA Reg. No. 46923-2

EPA Est. No. 46923-NJ-01

CHEMIGATION

NOTE: Copper-based products may be corrosive to aluminum equipment. Follow supplemental label information

GENERAL INSTRUCTIONS

Notice: Follow all directions carefully. Timing and methods of application, weather, crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage or handling of this material when not in strict accordance with the directions given on this label.

Recommended Mixing Directions: Fill the spray tank about half full of water and with agitator running add the required amount of Basic Copper Sulfate. Add water to fill the tank to 3/4 full and when a spreader sticker recommended, add the proper amount according to the manufacturer's recommendation. Fill the spray tank and keep agitator running until the spraying is completed.

NOTE TO USER: In some cases it may be desirable to omit oil from the spray mixture or use an alternative product other than dormant flowable oil. Consult the recommendation of the oil or other product for proper rate and timing.

The specific instructions on the back panel are based on general applications. The recommendations of local Agricultural Experiment Stations should be closely followed as to timing, frequency and number of sprays.

BASIC COPPER SULFATE is intended for use in a range of spray volumes. Recommendations on this label reflect common practices. If it is desirable to use spray volumes other than dilute in situations not specifically addressed on this label, do so only after developing direct knowledge, prior utilization or test, of effect on target crop.

Minimum Recommended Spray Volume (Gallons) Per Acre When Applying BASIC COPPER SULFATE.

	AERIAL	GROUND	
		Dilute	Concentrate
Row Crops	5	20	—
Vines	5	100	50
Tree Crops	10	400	50
Citrus	10	400	100

Complete spray coverage is essential to assure full performance from BASIC COPPER SULFATE. When treating on a concentrate basis or by aerial application, unless you have had specific previous experience, it is advisable to test for compatibility and crop tolerance prior to full scale commercial utilization.

When selecting a use rate for BASIC COPPER SULFATE, never apply less per acre than the amount recommended per 100 gallons unless specifically instructed by the label.

While volume is important in obtaining full spray coverage, often factors such as foliage density, environmental conditions and sprayer calibration have a greater impact. Always be sure sprayers are calibrated to manufacturers' specifications and environmental conditions are within those recommended by state and local regulatory authorities.

Per acre use rates of BASIC COPPER SULFATE for citrus, tree crops and vines are calculated on a dilute spray basis. Actual pounds of BASIC COPPER SULFATE per acre should be determined by multiplying the rate/100 gallons times the minimum recommended dilute spray volume. Example: For Citrus Brown Rot - 1.0 pound/100 gallons x 4 to 8 (dilute spray volume 400 to 800 gallons) = 4.0 to 8.0 pounds of BASIC COPPER SULFATE per acre. The per acre use rate of BASIC COPPER SULFATE is applicable for both dilute and concentrate spraying. Use sufficient water for thorough coverage. Spreader/stickers may be used as dictated by local practices and conditions.

DOT: NON-REGULATED

NET WT. 50 LBS.

(22.7 Kilos)

See Back Panel for Directions for Use. Do Not Use This Material in Aluminum Equipment

CROP	DISEASE	RATE PER 100 GAL. WATER	
Almonds	Brown Rot Blossom Blight Shot Hole	4-5 lbs.	May be applied as dormant or bud spray. Bud sprays should be applied at pink bud through popcorn stage. Do not apply after 50% bloom or when trees are in leaf. Use high rate when disease pressure is heavy or expected to be so.
Apples	Anthracnose	3-4 lbs.	For red varieties apply to foliage before or after harvest. For yellow varieties apply to foliage after harvest once every 2 to 3 years as necessary.
	Brooks Spot	1 lb.	Plus 2 lbs. hydrated lime/100 gallons. Apply in late cover sprays.
	Bitter Rot Black Rot, Blotch Powdery Mildew	1/2 - 1 1/2 lbs.	Plus 3-5 lbs. hydrated lime/100 gallons. Begin at petal fall and repeat through fourth cover spray.
	Bull's-eye Rot	4 lbs.	Plus suitable oil/100 gallons of water. Apply after harvest.
	Fire Blight	1/3 to 1/2 lb.	Begin at 10% bloom. Repeat at 5 day intervals until late bloom is over.
	Scab	1 - 1 1/4 lbs.	Plus 2-2 1/2 lbs. hydrated lime/100 gallons. Apply at late dormant stage.
	Sooty Blotch	1 - 1 1/4 lbs.	Plus 2 1/2 lbs. hydrated lime/100 gallons. Apply in late cover sprays. Under conditions where copper injury is likely to occur, add additional lime.
Apricots	Brown Rot Blossom Blight Shot Hole	4-5 lbs.	Apply as a dormant or bud spray. Bud sprays should be applied from bud swell to popcorn stage. Do not spray when trees are in leaf. When bud blight is a problem, apply the maximum rate after most leaves have fallen in the fall, usually November and December, but prior to fall rains.
Avocados	Anthracnose Blotch (Cercospora) Scab	3 lbs.	Spray first when blossom buds open. Make 5 applications at four week intervals. LIMIT: 30 to 40 lbs. per acre. Do not apply more than 140 days after bloom.
Cranberries	Anthracnose	2 lbs.	Begin when leaf buds begin to open. Repeat when flower buds show white. Continue at 10 to 14 day intervals.
Blackberries, Boysenberries, Raspberries, Loganberries, Raspberries, etc.)	Leaf & Cane Spot Yellow Rust	2 lbs.	In spring, begin when leaf buds begin to open. Repeat when flower buds show white. Also post harvest spray after pruning but before fall rains, using 6 lbs. per 100 gals of water.
Cherries	Brown Rot Blossom Blight	4-5 lbs.	Apply at popcorn and late bloom stages. In late bloom spray, add 5 lbs. hydrated lime/100 gallons spray.
	Leaf Spot	4-5 lbs.	Plus 4-5 lbs. hydrated lime/100 gallons. Apply at petal fall.
	Shot Hole	4-5 lbs.	Apply as a dormant spray.
Citrus*	Brown Rot	1 lb. (Florida only, use 2 lbs.)	Apply at first indications of rain or first appearance of Brown Rot. Repeat as needed to protect during wet weather.
	Melanose, Scab Greasy Spot Pink Pitting	1 1/2 - 3 lbs.	NOTE: For aerial or concentrate sprays, apply 10 to 26 lbs. 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 Melanose, apply 1 to 3 weeks after petal fall. Repeat 4 weeks later if necessary. Wettable sulfur may be included in sprays. For Scab, make two applications, one just before trees begin to flush and repeat at two thirds petal fall. Wettable sulfur may be included in sprays. For Greasy Spot and Pink Pitting, make a summer spray.
*Note: Do not use in areas where copper injury is known to have occurred.			
Current	Anthracnose	1 1/4 lbs.	Spray at leaf opening and repeat at 10 or 14 day intervals.
Gooseberries	Leaf Spot	6 lbs.	Apply at full bloom, two weeks later, and after harvest.
Liberts*	Bacterial Blight, Eastern Libert Blight	6 lbs.	Apply in late summer prior to heavy rains. If heavy fall rains occur, repeat spray after three-quarters of the leaves have dropped.
(*Not for use in California)			
Grapes	Anthracnose Black Rot Downy Mildew	2 lbs.	Make first application when new growth is 1/2 inch long and repeat every 10-14 days. Concentrate spray: use 4 to 5 pounds per acre in sufficient water for good coverage and apply as stated above.
Mangos	Anthracnose	3 lbs.	Begin sprays when panicles are about 2 inches long. Spray weekly until fruit sets, then spray monthly for a total of 12 applications. One gallon of spreader per 100 gallons of spray may increase efficiency.
Olives	Leaf Spot (Peacock Spot)	4 lbs.	Apply in late October. NOTE: In areas with 10 inches or less of rainfall per year, use only 2 lbs. per 100 gallons of water.
Peaches, Nectarines	Brown Rot	4-5 lbs.	Apply before bud swell and in full pink bud stages. Do not apply after pink bud stage or after trees are in leaf as injury may occur.
	Leaf Curl Peach Blight (Shot Hole)	4-5 lbs.	As a dormant spray, apply prior to fall rains. Bud sprays should be applied before bud swell and in full pink bud stages. Do not apply after pink bud stage, after foliage buds swell or after trees are in leaf as injury may occur. Consult your State Agricultural Experiment Station.
	Bacterial Diseases of Peaches	3 lbs.	California only: Apply 15 to 20 lbs. in 20 gallons of water/acre by aircraft during the dormant season.
Pears	Fire Blight	1/2 lb.	Use at least 400 gallons of spray per acre. 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	Shot Hole	4-5 lbs.	Apply as a dormant spray before the advent of heavy rains.
	Brown Rot Blossom Blight	4-5 lbs.	Apply at early green bud and full popcorn stages. Do not apply after trees are in leaf as injury may occur. California Only: For aircraft sprays to control Shot Hole, Brown Rot, Blossom Blight, apply 15 to 20 lbs. in 20 gallons of water/acre during the dormant season.
Raspberries	Leaf Spot	2-3 lbs.	Apply at pre-bloom and post bloom.
Walnuts	Blight	4-5 lbs.	Treat twice, once in early pre-bloom and again when 10 to 20 percent pistillate blooms are showing. Repeat applications for blight control 3 or 4 times during growing season, if necessary.

6/6

VEGETABLES		
CROP	DISEASE	RATE PER ACRE
Beans (Green & Dry)	Angular Leaf Spot Anthracnose Bacterial Blight Downy Mildew	2 - 4 lbs. Begin treatment when plants are about 5 inches tall and repeat at 5 to 7 day intervals.
Beets	Downy Mildew Leaf Blight Leaf Spots	2 - 3 lbs. Begin when disease first appears and repeat every 7 to 10 days.
Broccoli, Brussels Sprouts, Cabbage, Cauliflower	Downy Mildew Leaf Spots	2 - 3 lbs. For plant bed sprays, apply after plants have emerged but before diseases appear. Repeat in 7 to 10 days as needed. Note: For in-field use, use 3 lbs./100 gallons of water at 7 to 10 day intervals as needed.
Carrots	Alternaria & Cercospora Leaf Blights Downy Mildew	3 - 4 lbs. Begin treatment when disease first appears and repeat at 7 to 10 day intervals.
Celery	Early Blight Late Blight Bacterial Blight	3 - 4 lbs. Treat every 7 days after emergence.
Cucurbits (Cantaloupes, Cucumbers, Melons, Pumpkins, Squash)	Angular Leaf Spot Anthracnose Alternaria Leaf Spot Bacterial Wilt Downy Mildew Powdery Mildew Gummy Stem Blight Leaf Spot Scab	2 lbs. 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 population (40,000 plus plants per acre), spray every 3 to 4 days to protect fruit at all stages of development. Note: A ground application of Basic Copper Sulfate 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 may recommend equal amounts of hydrated lime when used on cucurbits. Lime when applied to cucurbits may cause dwarfing of plants and reduce fruit set due to increased transpiration and defoliation under some conditions. Consult your local Experiment Station for specific recommendations.
Eggplant	Anthracnose Downy Mildew Phomopsis Blight Leaf Spots Early Blight (Alternaria)	Apply 1 3/4 to 3 pounds/100 gallons water to either plant beds or field before diseases appear. Repeat at 7 to 10 day intervals.
Lettuce	Anthracnose Downy Mildew Leaf Spot (Cercospora)	— Spray 1 3/4 to 3 pounds/100 gallons before diseases appear. Repeat at 7 to 10 day intervals.
Onion	Downy Mildew Purple Blotch	3 - 4 lbs. Begin when plants are 5 to 6 inches. Repeat at 7 to 10 day intervals.
Peas	Downy Mildew Leaf Spot	— Use 1 3/4 to 3 pounds/100 gallons. Begin spraying before diseases appear. Repeat at 7 to 10 day intervals.
Peppers	Anthracnose Bacterial Spot Early Blight Downy Mildew Cercospora Leaf Spot	3 - 4 lbs. Start sprays in seedbed and continue in field at 7 day intervals. NOTE: Disease control is critical during fruiting.
Potatoes	Early Blight Late Blight	3 - 6 lbs. Begin when plants emerge. Repeat at 7 to 10 day intervals.
Peanuts	Cercospora Leaf Spot	2 - 3 lbs. Repeat at 10 to 14 day intervals. NOTE: The addition of 2 pounds of wettable or flowable sulfur in a tank mix will enhance Leaf Spot control. Dusting is preferred, use 7 pounds BASIC COPPER SULFATE with 92 pounds dusting sulfur per 3 to 5 acres, depending on plant size.
Spinach	Anthracnose Downy Mildew White Rust Cercospora Leaf Spot	2 - 4 lbs. Begin when disease first appears. Repeat at 7 to 10 day intervals.
Sugarbeets	Cercospora Leaf Spot	4 lbs. Begin when disease first occurs. Repeat every 7 to 10 days.
Tomatoes	Anthracnose Bacterial Spot Bacterial Canker Early Blight Late Blight Leaf Mold Nailhead Rust Septoria Leaf Spot Stemphylium Leaf Spot	2 - 4 lbs. Begin in seedbed or field before disease appears. Repeat at 7 to 10 day intervals.

CONDITIONS OF SALE LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

The directions for use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Old Bridge or the seller. All such risks shall be assumed by the purchaser and user.

Old Bridge 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 inherent risks referred to above. Old Bridge makes no other warranty or representation of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, and no such warranties shall be implied by the law.

The exclusive remedy against Old Bridge for any cause of action relating to the handling or use of this product is a claim for damage and in no event shall damages or any other recovery of any kind against Old Bridge exceed the price of the product which causes the alleged loss, damage, injury, or other claim. Old Bridge shall not be liable and any and all claims against Old Bridge are waived, for special, indirect, incidental, consequential damages or expenses, of any nature, including, but not limited to, loss of profits or income, a crop or property loss or damage, whether or not based on Old Bridge's negligence, breach of warranty, or any other cause of action.

Old Bridge and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitations of warranty, liability and remedies which may only be varied by agreement in writing signed by a duly authorized representative of Old Bridge.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.