



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

PP Identifier Number

235364

Application for Pesticide - Section I

1. Company/Product Number 46923-2	2. EPA Product Manager CYNTHIA GILES-PARKER	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) OLD BRIDGE BASIC COPPER SULFATE	PM# 22	
5. Name and Address of Applicant (Include ZIP Code) OLD BRIDGE CHEMICALS INC. P.O. BOX 194 OLD BRIDGE, NJ 08857 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

TO REFLECT A CHANGE IN THE DOT CLASSIFICATION

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	
				<input type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input checked="" type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt. 50 LBS	No. per container 1	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 50 LBS		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Joel L. Goldschmidt	Title VICE PRESIDENT	Telephone No. (Include Area Code) 908-727-2225
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received Stamped
2. Signature 	3. Title VICE PRESIDENT	
4. Typed Name JOEL L. GOLDSCHMIDT	5. Date AUGUST 7, 1995	

MICRONIZED BASIC COPPER SULFATE FUNGICIDE

CAS No. 1344-73-6
EPA Reg. No. 46923-2
EPA Est. No. 46923-NJ-01

- ACTIVE INGREDIENT:
Basic Copper Sulfate 99%
(Copper expressed as metallic . . . 53%)
- INERT INGREDIENTS: 1%
- Total 100%

KEEP OUT OF REACH OF CHILDREN WARNING/AVISO

(Translated as follows in Spanish: Busque a alguien para que se le 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-sleeved shirt and long pants

Socks plus shoes

Protective eye wear

Respirator and/or eye protection (MSHA/NIOSH approval number prefix TC 21C)

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 170.243) and 4. All the handler PPE requirements may be reduced or eliminated 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.

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching the back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If splashed in eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

If spilled on skin: Remove contaminated clothes and shoes and immediately wash skin with soap and plenty of water. See a physician.

ENVIRONMENTAL HAZARDS

This product 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.

DIRECTIONS FOR USE

STORAGE AND DISPOSAL

Store in a cool, dry place. Do not contaminate water, food or feed by storage or disposal. 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 residue in application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities.

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

CHEMIGATION

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

SUPPLEMENTAL LABELING

BASIC COPPER SULFATE

EPA Reg. No. 46923-2

EPA Est. No. 4 923 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 is 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 practice. If it is desirable to use spray volumes other than those 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
Tree Crops	10	400
Citrus	10	400

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.

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 24 hours.

PPE requirements for entry into 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
- Long-sleeved shirt
- Shoes and socks
- Protective eye wear

than the amount recommended per 100 gallons unless specifically instructed by the label.
While volume is important in obtaining fully spray coverage, other 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/A 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 A. 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 Classification: NON REGULATED

NET WT. 50 LBS.
(22.7 Kilos)

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

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SPECIFIC INSTRUCTIONS

FRUITS AND NUTS

CROP	DISEASE	RATE PER 100 GAL. WATER	USE INSTRUCTIONS
Almonds	Brown Rot Blossom Blight, Shot Hole	4 - 5 lbs.	May be applied as a 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	Anthrachnose	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.
	Bitler 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-eye Rot	4 lbs.	Plus suitable oil/100 gallons of water. Apply after harvest.
	Fire Blight	1/2 - 1/2 lb.	Begin at 10% bloom. Repeat at 5-day intervals until late bloom is over.
	Scab	1 - 1 1/4 lb.	Plus 2 - 2 1/2 lbs. hydrated lime/100 gallons. Apply at delayed dormant stage.
	Sooty Blotch	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	Anthrachnose, Blotch (Cercospora), Scab	3 lbs.	Spray first when blossom buds open. Make 5 applications at four-week intervals. LIMIT: 30 to 40 pounds per acre. Do not apply more than 140 days after bloom.
Caneberries (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries, etc.)	Anthrachnose	2 lbs.	Begin when leaf buds begin to open. Repeat when flower buds show white. Continue at 10 to 14 day intervals.
	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 10-26 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 to User: Do not use in areas where copper injury is known to have occurred.			
Currants, Gooseberries	Anthrachnose, Leaf Spot	1 1/4 lbs.	Spray at leaf opening and repeat at 10-14 day intervals. Or,
		3 lbs.	Apply at full bloom, two weeks later, and after harvest.
Filberts*	Bacterial Blight, Eastern Filbert 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	Anthrachnose, 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	Anthrachnose	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.
Oranges	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. California only: Apply 16-20 lbs. in 20 gallons of water/acre by aircraft during the dormant season.
	Bacterial Diseases of Peaches	3 lbs.	Apply 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 aerial spray to control Shot Hole, Brown Rot, Blossom Blight, apply 16-20 lbs. in 20 gallons of water/acre by aircraft during the dormant season.

Strawberries	Leaf Spot	2 - 3 lbs.	20 gallons of water/acre during the dormant season.
Walnuts	Blight	4 - 5 lbs.	Apply at pre-bloom and post bloom.
			Treat twice, once in early prebloom 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.

Manufactured by **OLD BRIDGE CHEMICAL**

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VEGETABLES

CROP	DISEASE	RATE PER ACRE	USE INSTRUCTIONS
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.
Beet.	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 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 populations (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 to 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 1½ - 3 lbs./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 1¾ to 3 pounds/100 gallons before diseases appear. Repeat at 7 to 10 day intervals.
Onions	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 Spots	—	Use 1¾ 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 wettable or flowable sulfur in a tank mix will enhance Leaf Spot control. If dusting is preferred, use 7 pounds BASIC COPPER SULFATE with 93 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,

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, or consequential damages or expenses, of any nature, including, but not limited to, loss of profits or income, and crop or property loss or damage, whether or not based on Old Bridge's negligence, breach of warranty, strict liability in tort

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

to the extent which may only be varied by agreement in writing and representative of Old Bridge.

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