

**SOAP-SHIELD®**

Flowable Liquid Copper Fungicide



For Organic Gardening

Active Ingredient:

Copper Octanoate (Copper Soap).....	10.0%
Other Ingredients.....	90.0%
Total	100.0%
metallic copper equivalent.....	1.8%

EPA Registration No. 67702-2-56872

EPA Establishment No. 56872-IN-1

KEEP OUT OF REACH OF CHILDREN
CAUTION

PRECAUTIONARY STATEMENTS**Hazards to Humans and Domestic Animals**

Caution: Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Environmental Hazards

This pesticide is toxic to fish and aquatic organisms and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

U.S. Patent No.: 5,246,716

NET CONTENTS: 16 fl. oz.

MANUFACTURED BY:
Gardens Alive®, Inc.
5100 Schenley Place
Lawrenceburg, IN 47025
Phone 513-354-1483
www.GardensAlive.com

**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 ON SKIN OR CLOTHING	-Take off contaminated clothing. -Rinse skin immediately with plenty of water for 15-20 minutes. -Call a poison control center or doctor for treatment advice.
IF SWALLOWED	-Call a 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 by a poison control center or doctor. -Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1-800-858-7378 Monday through Friday, 7:30 am to 3:30 pm (NPIC Web site: www.npic.orst.edu). During other times, call the poison control center at 1-800-222-1222.

**See Attached Booklet for
Directions for Use**

STORAGE AND DISPOSAL

Pesticide Storage: Store in a secure place, away from open fire or flame. Keep container closed and reseal after use.

Product may be damaged by freezing. Do not store product below 4° C. If spilled, use absorbent materials and dispose of in an approved manner.

Pesticide Disposal and Container Handling:

Nonrefillable container. Do not reuse or refill this container.

If empty: Place in trash or offer for recycling if available.

If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

#8066

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DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read and follow all applicable directions and precautions on this label before using.

Do not allow adults, children or pets to enter the treated area until sprays have dried. Do not apply this product in a way that will contact adults, children or pets, either directly or through drift.

Application Directions

Shake well before use. Most conventional liquid pesticide plant sprayers can be used to apply SOAP-SHIELD® Flowable Liquid Copper Fungicide to plants. Reapply after rain, following the application interval in the application notes.

To control **powdery mildews**, use a solution of 0.5 to 2.0 fluid ounces of SOAP-SHIELD® Flowable Liquid Copper Fungicide in a gallon of water. For best control, start spraying before the disease is visible or when mildew is first visible on the plant. Spray all plant parts thoroughly (top and bottom of leaves), and repeat every 7 to 10 days. When powdery mildew presence is expected on a plant, spray the plants at the minimum application interval during the first 2 weeks after emergence.

To control **downy mildews, leaf and fruit spots, blights, and rust**, use a solution of 0.5 to 2.0 fluid ounces of SOAP-SHIELD® Flowable Liquid Copper Fungicide in a gallon of water. Ensure that all surfaces of the plant are thoroughly sprayed (top and bottom of leaves). For best control, begin treatment 2 weeks before disease normally appears or when weather forecasts predict a long period of wet weather. Alternatively, begin treatment when disease first appears, and repeat for as long as needed. See application notes for the specific crop application interval. Use 2 fluid ounces per gallon of water, sprayed every 7-10 days, following heavy rain or when the amount of disease is increasing rapidly. This higher rate should be used for preventing late blight on potato and related plants. If possible, time applications so that at least 12 hours of dry weather follows application.

To prevent **fruit rots**, use a solution of 0.5 to 2.0 fluid ounces of SOAP-SHIELD® Flowable Liquid Copper Fungicide in a gallon of water. Ensure that all surfaces of the plant are thoroughly sprayed (top & bottom of leaves). Apply at the start of flowering and continue every 7 to 10 days until harvest. Fungicidal sprays are especially warranted when weather forecasts predict a long period of wet weather.

Ornamentals:Diseases Controlled, Listed by Plant:

Ornamental Plant	Common Name	Diseases Controlled
<i>Aechmea faciaa</i>	Urn plant, brom-elid	Anthrachnose leaf and fruit spot, Bacterial leaf spot and blight
<i>Aeschynanthus pulcher</i>	Lipstick vine	Botrytis blight, Leaf spot (fungal)
<i>Aglaonema</i> species	Chinese evergreen	Anthrachnose leaf and fruit spot, Bacterial leaf spot and blight, Leaf spot (fungal), Rhizoctonia

Ornamental Plant	Common Name	Diseases Controlled
<i>Anthurium</i> species	Tailflower	Anthrachnose leaf and fruit spot, Bacterial leaf spot and blight, Leaf spot (fungal), Rhizoctonia blight, Soft rot
<i>Aphelandra squarrosa</i>	Zebra plant	Botrytis blight, Leaf spot (fungal), Rhizoctonia blight
<i>Araucaria heterophylla</i>	Norfolk Island pine	Colletotrichum needle blight
<i>Asplenium nidus</i>	Bird's nest fern	Bacterial leaf spot and blight
<i>Brassaia actinophylla</i>	Schefflera	Anthrachnose leaf and fruit spot, Bacterial leaf spot and blight, Leaf spot (fungal), Rhizoctonia blight
<i>Caladium</i> species	Caladium	Bacterial leaf spot and blight, Rhizoctonia blight
<i>Calathea</i> species	Rattlesnake plant	Bacterial leaf spot and blight, Leaf spot (fungal)
<i>Caryota mitis</i>	Fishtail palm	Bacterial leaf spot and blight, Leaf spot (fungal)
<i>Chamaedorea</i> species	various palms	Leaf spot
<i>Chrysalidocarpus lutescens</i>	Areca palm	Leaf spot

Ornamental Plant	Common Name	Diseases Controlled
<i>Cissus</i> species	Grape ivy	Anthracnose leaf and fruit spot, Botrytis blight, Downy mildew, Powdery mildew, Rhizoctonia blight
<i>Codiaeum variegatum</i>	Croton	Anthracnose leaf and fruit spot, Bacterial leaf spot and blight
<i>Cordyline terminalis</i>	Ti plant	Anthracnose leaf and fruit spot, Leaf spot (fungal)
<i>Chrysanthus</i> species	Bromeliad, earthstar	Anthracnose leaf and fruit spot
<i>Dieffenbachia</i> species	Dieffenbachia	Bacterial leaf spot and blight, Leaf spot (fungal), Rhizoctonia blight
<i>Dracaena</i> species	Dracaena, Corn plant	Bacterial leaf spot and blight, Botrytis blight, Leaf spot (fungal)
<i>Epipremnum aureum</i>	Pothos, Devil's ivy	Bacterial leaf spot and blight, Rhizoctonia blight
<i>Euphorbia milii</i>	Euphorbia	Rhizoctonia blight
<i>Fatsia japonica</i>	Japanese fatsia	Bacterial leaf spot and blight, Leaf spot (fungal), Rhizoctonia blight
<i>Ficus benjamina</i>	Weeping fig	Leaf spot (fungal)
<i>Ficus elastica</i>	India-rubber tree	Leaf spot (fungal), Botrytis blight

Ornamental Plant	Common Name	Diseases Controlled
<i>Fittonia verschaffeltii</i>	Nerve plant	Rhizoctonia blight
<i>Hedra helix</i>	English ivy	Anthracnose leaf and fruit spot, Bacterial leaf spot and blight, Botrytis blight, Leaf spot (fungal), Rhizoctonia blight
<i>Hoya carnosa</i>	Wax plant	Botrytis blight, Leaf spot (fungal), Rhizoctonia blight
<i>Maranta leuconeura</i>	Prayer plant	Leaf spot (fungal)
<i>Monstera deliciosa</i>	Swiss cheese plant	Bacterial leaf spot and blight, Anthracnose leaf and fruit spot, Rhizoctonia blight, Soft rot
<i>Nephrolepis exaltata</i>	Boston fern	Bacterial leaf spot and blight, Botrytis blight, Rhizoctonia blight
<i>Peperomia</i> species	Peperomia	Leaf spot (fungal), Rhizoctonia blight
<i>Philodendron</i> species	Philodendron	Anthracnose leaf and fruit spot, Botrytis blight, Leaf spot (fungal)
<i>Pilea</i> species	Aluminum plant	Bacterial leaf spot and blight, Anthracnose leaf and fruit spot, Leaf spot (fungal), Rhizoctonia blight

Ornamental Plant	Common Name	Diseases Controlled
<i>Platycerium bifurcatum</i>	Staghorn fern	Bacterial leaf spot and blight, Rhizoctonia blight
<i>Polyscias</i> species	Aralia	Anthracnose leaf and fruit spot, Bacterial leaf spot and blight, Leaf spot (fungal)
<i>Rhapis</i> species	Ladyfinger palm	Leaf spot (fungal)
<i>Rhoeo spathacea</i>	Oyster plant	Leaf spot (fungal)
<i>Saintpaulia ionantha</i>	African violet	Bacterial leaf spot and blight, Botrytis blight, Leaf spot (fungal), Powdery mildew
<i>Sansevieria triafasciata</i>	Snake plant	Bacterial leaf spot and blight, Leaf spot (fungal)
<i>Schefflera arboricola</i>	Dwarf Schefflera	Bacterial leaf spot and blight, Leaf spot (fungal)
<i>Schlumbergera</i> species	Cactus	Leaf spot (fungal)
<i>Sedum</i> species	Sedum	Leaf spot (fungal)
<i>Spathiphyllum</i> species	Spathe flower	Leaf spot (fungal), Rhizoctonia blight
<i>Syngonium podophyllum</i>	Nephtytis	Bacterial leaf spot and blight, Leaf spot (fungal), Rhizoctonia blight
<i>Yucca</i> species	Yucca	Leaf spot (fungal)

Directions for Use on Ornamentals and Turf

The ornamental and turf species listed may be treated with SOAP-SHIELD® Flowable Liquid Copper Fungicide. Unless otherwise stated, mix 0.5 to 2 fluid ounces in one gallon of water and spray all plant surfaces thoroughly (top and bottom of leaves). When necessary, repeat sprays every 7 to 10 days. Use the higher rate to control diseases that may go dormant and overwinter. SOAP-SHIELD® Flowable Liquid Copper Fungicide may cause some copper toxicity on some plant species. Before spraying a specific plant species, consult your State Experiment Station or make a test spray.

Directions for use on Ornamentals and Turf		
Crop	Diseases Controlled	Application Notes
Pine	Needle blight	Mix at a rate of 0.5 to 2.0 fluid ounces of SOAP-SHIELD® Flowable Liquid Copper Fungicide with one gallon of water. Spray until needles are thoroughly wet with spray. Apply when new needles are just emerging.
Rose and Ornamental Shrubs (Such as; Crape Myrtle, Forsythia, Hydrangea, Willow, Mock Orange, Deutzia, Pyracantha, Japanese quince, Abelia, Summersweet)	Blackspot, Downy mildew, Gray mold (Botrytis), Leafspots, Powdery mildew, Rust	SOAP-SHIELD® Flowable Liquid Copper Fungicide may cause copper toxicity on some rose varieties. Copper toxicity appears as purple spots. For Black Spot, mix at a rate of 1.44 fl. ozs of SOAP-SHIELD® Flowable Liquid Copper Fungicide per gallon of water. For powdery mildew, mix at a rate of 1.08 fl ozs of SOAP-SHIELD® Flowable Liquid Copper Fungicide per gallon of water. In damp cool conditions (below 60°F), phytotoxicity is likely to occur with the use of SOAP-SHIELD® Flowable Liquid Copper Fungicide
Sycamore	Anthracnose leaf spot	Make first application just before buds begin to swell, and repeat twice, at 7-day intervals.

Crop	Diseases Controlled	Application Notes
Turf	Ascochyta leaf blight, Cercospora leaf spots, Dollar spot	Mix 1.5 to 6 fluid ounces with 2.5 gallons of water and apply to 1,000 sq. ft. For best control, begin treatment 2 weeks before disease normally appears. Alternatively, begin treatment when disease first appears, and repeat at 7 to 10 day intervals for as long as needed. To reduce Ascochyta leaf blight, mow less frequently, only as necessary to maintain recommended height. Water before noon to allow grass to dry. Water thoroughly only as required to avoid moisture stress. Apply SOAP-SHIELD® Flowable Liquid Copper Fungicide when disease first appears, and repeat at 7 to 10 day intervals for as long as needed. In frequently diseased areas, prune adjacent trees and shrubs to reduce turf shading and to improve air movement.
	Rust	To reduce rust mow frequently to reduce rust spore production. Water and fertilize lawn as required to avoid moisture and nutrient stress. Water before noon to allow grass to dry. Apply SOAP-SHIELD® Flowable Liquid Copper Fungicide when disease first appears, and repeat at 7-10 day intervals for as long as needed.

Crop	Diseases Controlled	Application Notes
		In frequently diseased areas, prune adjacent trees and shrubs to reduce turf shading and to improve air movement.

Directions for Use on Fruits and Vegetables

Unless otherwise stated below, mix 0.5 to 2.0 fluid ounces of SOAP-SHIELD® Flowable Liquid Copper Fungicide with 1 gallon of water. Use sufficient water to ensure good coverage, including tops and bottoms of leaves. For best control, begin treatment 2 weeks before disease normally appears or when weather forecasts predict a long period of wet weather. Alternatively, begin treatment when disease first appears and repeat as long as needed. See application notes for specific plant application interval. Use the higher rate at the minimum application interval following heavy rain or when the amount of disease is increasing rapidly. If possible, time applications so that 12 hours of dry weather follow application. Use the higher rate to control diseases that may go dormant and overwinter.

Crop	Diseases Controlled	Application Notes
Bean, Pea	Anthracnose leaf and fruit spot, Ascochyta leaf and pod spot, Bacterial blights (halo, common and brown spot), Downy mildew, Gray mold (Botrytis), Powdery Mildew, White mold (Sclerotinia)	Repeat application every 7-10 days if necessary.
Beet, Chard, Spinach	Cercospora leaf spot, Downy mildew, White rust, Powdery mildew	Repeat application every 7-10 days if necessary.
Carrots	Alternaria leaf blight, Bacterial leaf blight, Cercospora leaf blight	Repeat application every 7-10 days if necessary.
Celery and Celeriac	Bacterial leaf spot, Cercospora (early) blight, Septoria (late) blight	Repeat application every 7-10 days if necessary.

Crop	Diseases Controlled	Application Notes
Citrus (Grapefruit, Lemon, Lime, Orange, Pummelo, Tangerine)	Melanose spot, greasy spot, citrus scab, Alternaria brown spot, citrus canker, <i>Phytophthora</i> brown rot, and <i>Septoria</i> .	Repeat every 2 weeks if necessary. May cause phytotoxicity if conditions are conducive, when mixed with other products, or when applied to citrus seedlings grown in greenhouses or shadehouses.
Corn	Alternaria blight, Anthracnose, Ascochyta leaf and pod spot, Bacterial blights (halo, common, and brown spot), Bacterial leaf spot, Downy mildew, Gray mold, Southern leaf blight, Cercospora leaf blight, Common or Southern Rust, Gray Leaf Spot, Stewart's Wilt*, Bacterial Stalk Rot*	Repeat application every 7-10 days if necessary.
Crucifer Crops (Bok Choy, Broccoli, Brussels sprouts, Canola, Cauliflower, Cabbage, Kale, Kohlrabi, Mustard, Pak-Choi, Rape, Rutabaga, Turnip)	Alternaria blight, Bacterial leaf spot, Downy mildew, Powdery mildew, White mold (Sclerotinia)	Repeat application every 7-10 days if necessary.
Cucurbits (Cucumbers, Cantaloupe, Squash, Pumpkin, Zucchini)	Alternaria blight, Angular leaf spot, Anthracnose leaf and fruit spot, Downy mildew, Gray mold, Scab, Ulocladium leaf spot, Powdery mildew	For cucumbers grown in a greenhouse, apply SOAP-SHIELD® Flowable Liquid Copper Fungicide 2 times per week in the first 2 weeks after emergence, followed by sprays every 7 days.

Crop	Diseases Controlled	Application Notes
Currant and Gooseberry	Anthracnose leaf and fruit spot, Phyllosticta, Septoria leaf spots, Powdery mildew	Repeat application every 7-10 days if necessary.
Ginseng	Alternaria blight, Botrytis blight, Phytophthora, Powdery mildew	Repeat application every 7-10 days if necessary.
Grapes	Downy mildew, Black rot, Phomopsis Cane and Leaf Spot, Powdery mildew, Gray mold (Botrytis)	Repeat application every 7-10 days if necessary. Do not mix SOAP-SHIELD® Flowable Liquid Copper Fungicide with lime. Certain Vinifera and French Hybrid varieties may be sensitive to copper sprays resulting in marginal leaf burn. Before spraying these varieties, consult your State Experiment Station or make test sprays.
Hop	Anthracnose leaf and fruit spot, Cercospora leaf spot, Downy mildew, Powdery mildew	Repeat application every 7-10 days if necessary.
Lettuce, Chicory, Endive	Downy mildew, Septoria leaf spot, Powdery mildew, Bacterial soft rot and bottom rot	Repeat application every 7-10 days if necessary. Use lower rate when disease pressure is low or on copper sensitive varieties of lettuce.
Onion, Garlic, Leek, Shallot, Chives	Botrytis leaf blight, Downy mildew, Neck rot, Bacterial soft rot	Repeat application every 7-10 days if necessary.
Parsley	Leaf scorch, Leaf spot	Repeat application every 7-10 days if necessary.
Peanuts	Sclerotinia blight, Leaf spots (early and late), web blotch	Repeat application every 7-10 days if necessary.

Crop	Diseases Controlled	Application Notes
Pome Fruit Trees (Apple, Pear, Quince)	Anthrachnose, Cedar Apple Rust, Fireblight, Scab, Sooty Blotch, Flyspeck, Quince Rust	For fireblight control, apply SOAP-SHIELD® Flowable Liquid Copper Fungicide in the dormant period, during bloom, or in-season cover spray applications. Do not exceed one application between silver tip and green tip growth stages. May cause russetting of susceptible apple varieties. Do not exceed 1 gallon on product per 100 gallons of water. Repeat application every 7-10 days if necessary.
Blackberry, Blueberry, Raspberry	Gray mold (Botrytis), Mucor fruit rot, Rhizopus fruit rot	Apply at the start of flowering and continue every 7 to 10 days until harvest.
Stone Fruit Trees (Almond, Apricot, Cherry, Nectarine, Peach, Plum)	Bacterial canker (Pseudomonas syringae), Brown rot blossom blight, leaf and fruit spot, Bacterial leaf spot	For bacterial canker, apply as a dormant spray as buds begin to swell, repeating at the bud burst stage, and weekly thereafter as needed, up to six sprays. In the fall spray again at 10 and 80% leaf fall. For brown rot blossom blight apply full cover spray at delayed dormant (bud swell), popcorn, full bloom and petal fall stages. During wet weather additional bloom sprays may be necessary. Repeat application every 7-10 days if necessary.

Crop	Diseases Controlled	Application Notes
	Anthrachnose leaf and fruit spot, Coryneum blight, Peach leaf curl	Apply as a dormant spray in late fall to before bud break. Repeat application every 7-10 days if necessary.
Strawberry	Angular leaf spot, Leaf scorch, Mycosphaerella leaf spot, Phomopsis leaf blight, Powdery mildew, Septoria leaf spots	Spray 1 month after planting (or before flowering on established plants) and twice more at 7 to 10 day intervals.
	Anthrachnose fruit rot, Gray mold (Botrytis)	Apply at the start of flowering and continue every 7 to 10 days until harvest.
Tobacco	Blue Mold (Downy Mildew)	Repeat application every 10 days if necessary.
Tomato, Potato, Eggplant, Pepper	Anthrachnose leaf and fruit spot, Bacterial speck, Bacterial spot, Cercospora leaf spot, Early blight, Gray mold, Late blight, Leaf mold, Septoria leaf spot	Repeat application every 7-10 days if necessary.
Walnuts	Blight	Repeat application every 7-10 days if necessary.

***Not registered for use in California.**

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 use conditions, or under conditions not reasonably foreseeable to seller. To the extent consistent with applicable law, buyer assumes all risks of any such use. Seller makes no other warranties, either expressed or implied.