



ACTIVE INGREDIENT:







Copper Soap Fungicide

For Organic Gardening

For Roses, Fruits & Vegetables • Use For Early And Late Blight On Tomatoes Controls Peach Leaf Curl • Can Be Used Up To The Day Of Harvest

Copper Octanoate (Copper Soar	0) 10.0%
CAS Reg. No. 20543-04-8	
OTHER INGREDIENTS:	
TOTAL:	100.0%
metallic copper equivalent	1.8%
one gallon contains 0.16 lbs, me	tallic copper equivalent

OF CHILDREN

CALITION

See Back Panel For Additional Precautionary Statements.

NET CONTENTS ONE PINT (16 FL. OZS. / 473 ML)

If nn

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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 1-800-222-1222.

Manufactured under a license of W. Neudorff GmbH KG, Germany • US Patent Number: 5,246,716



PEEL BACK BOOK HERE



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41721-0816-CL



PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorfy 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 adiacent 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 washwater or rinsate.

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 NATURAL GUARD® BRAND BY ferti+lome® COPPER SOAP FUNGICIDE CONCENTRATE to plants. Mix 0.5 to 2.0 fluid ounces of NATURAL GUARD® BRAND BY ferti•lome® COPPER SOAP FUNGICIDE CONCENTRATE in a gallon of water. Unless otherwise stated in specific application notes, apply 1.1 to 2.3 gallons of diluted spray per 1,000 ft2. For best control. start spraying before the disease is visible or when disease is first visible on the plant. Spray all plant parts thoroughly (top and bottom of leaves), and repeat every 7 to 10 days. Use the higher rate to control diseases that may go dormant and overwinter. See application notes for the specific crop application interval. If possible, time applications so that at least 12 hours of dry weather follows application. Reapply after rain, following the application interval in the application notes

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, 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.

To prevent **fruit rots**, 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
Aechmea Faciaa	Um Plant, Bromeliad	Anthracnose Leaf and Fruit Spot, Bacterial Leaf Spot and Blight
Aeschynanthus Pulcher	Lipstick Vine	Botrytis Blight, Leaf Spot (Fungal)
Aglaonema Species	Chinese Evergreen	Anthracnose Leaf and Fruit Spot, Bacterial Leaf Spot and Blight, Leaf Spot (Fungal), Rhizoctonia Blight, Soft Rot
Anthurium Species	Tailflower	Anthracnose Leaf and Fruit Spot, Bacterial Leaf Spot and Blight, Leaf Spot (Fungal), Rhizoctonia Blight, Soft Rot
Aphelandra Squarrosa	Zebra Plant	Botrytis Blight, Leaf Spot (Fungal), Rhizoctonia Blight
Araucaria Heterophylla	Norfolk Island Pine	Colletotrichum Needle Blight
Asplenium Nidus	Bird's Nest Fern	Bacterial Leaf Spot and Blight
Brassaia Actinophylla	Schefflera	Anthracnose Leaf and Fruit Spot, Bacterial Leaf Spot and Blight, Leaf Spot (Fungal) Rhizoctonia Blight
Caladium Species	Caladium	Bacterial Leaf Spot and Blight, Rhizoctonia Blight
Calathea Species	Rattlesnake Plant	Bacterial Leaf Spot and Blight, Leaf Spot (Fungal)
Caryota Mitis	Fishtail Palm	Bacterial Leaf Spot and Blight, Leaf Spot (Fungal)
Chamaedorea Species	Various Palms	Leaf Spot

Ornamentals:	Diseases Control	led, Listed By Plant: Continued
Chrysalidocarpus Lutescens	Areca Palm	Leaf Spot
Cissus Species	Grape Ivy	Anthracnose Leaf and Fruit Spot, Botrytis Blight, Downy Mildew, Powdery Mildew, Rhizoctonia Blight
Codiaeum Variegatum	Croton	Anthracnose Leaf and Fruit Spot, Bacterial Leaf Spot and Blight
Cordyline Terminalis	Ti Plant	Anthracnose Leaf and Fruit Spot, Leaf Spot (Fungal)
Chryptanthus Species	Bromeliad, Earthstar	Anthracnose Leaf and Fruit Spot
Dieffenbachia Species	Dieffenbachia	Bacterial Leaf Spot and Blight, Leaf Spot (Fungal) Rhizoctonia Blight
Dracaena Species	Dracaena, Corn Plant	Bacterial Leaf Spot and Blight, Botrytis Blight, Leaf Spot (Fungal)
Epipremnum Aureum	Pothos, Devil's Ivy	Bacterial Leaf Spot and Blight, Rhizoctonia Blight
Euphorbia Milii	Euphorbia	Rhizoctonia Blight
Fatsia Japonica	Japanese Fatsia	Bacterial Leaf Spot and Blight, Leaf Spot (Fungal) Rhizoctonia Blight
Ficus Benjamina	Weeping Fig	Leaf Spot (Fungal)
Ficus Elastica	India-Rubber Tree	Leaf Spot (Fungal), Botrytis Blight
Fittonia Verschaffeltii	Nerve Plant	Rhizoctonia Blight
Hedra Helix	English Ivy	Anthracnose Leaf and Fruit Spot, Bacterial Leaf Spot and Blight, Botrytis Blight, Leaf Spot (Fungal), Rhizoctonia Blight

		led, Listed By Plant: Continued
Hoya Carnosa	Wax Plant	Botrytis Blight, Leaf Spot (Fungal), Rhizoctonia Blight
Maranta Leuconeura	Prayer Plant	Leaf Spot (Fungal)
Monstera Deliciosa	Swiss Cheese Plant	Bacterial Leaf Spot and Blight, Anthracnose Leaf and Fruit Spot, Rhizoctonia Blight, Soft Rot
Nephrolepis Exaltata	Boston Fern	Bacterial Leaf Spot and Blight, Botrytis Blight, Rhizoctonia Blight
Peperomia Species	Peperomia	Leaf Spot (Fungal), Rhizoctonia Blight
Philodendron Species	Philodendron	Anthracnose Leaf and Fruit Spot, Botrytis Blight, Leaf Spot (Fungal)
Pilea Species	Aluminum Plant	Bacterial Leaf Spot and Blight, Anthracnose Leaf and Fruit Spot, Leaf Spot (Fungal), Rhizoctonia Blight
Platycerium Bifurcatum	Staghorn Fern	Bacterial Leaf Spot and Blight, Rhizoctonia Blight
Polyscias Species	Aralia	Anthracnose Leaf and Fruit Spot, Bacterial Leaf Spot and Blight, Leaf Spot (Fungal)
Rhapis Species	Ladyfinger Palm	Leaf Spot (Fungal)
Rhoeo Spathacea	Oyster Plant	Leaf Spot (Fungal)
Saintpaulia Ionantha	African Violet	Bacterial Leaf Spot and Blight, Botrytis Blight, Leaf Spot (Fungal), Powdery Mildew
Sansevieria Triafasciata	Snake Plant	Bacterial Leaf Spot and Blight, Leaf Spot (Fungal)
Schefflera Arboricola	Dwarf Schefflera	Bacterial Leaf Spot and Blight, Leaf Spot (Fungal)
Schlumbergera Species	Cactus	Leaf Spot (Fungal)

Ornamentals: Diseases Controlled, Listed By Plant: Continued		
Sedum Species	Sedum	Leaf Spot (Fungal)
Spathiphyllum Species	Spathe Flower	Leaf Spot (Fungal), Rhizoctonia Blight
Syngonium Podophyllium	Nephthytis	Bacterial Leaf Spot and Blight, Leaf Spot (Fungal), Rhizoctonia Blight
Yucca Species	Yucca	Leaf Spot (Fungal)

ORNAMENTALS AND TURF

Do not use more than 391 fl.oz/1000 sq. ft. per year on turf or more than 373 fl. oz/1000 sq. ft. per year on ormamentals. NATURAL GUARD® BRAND BY Ferti-lom@ COPPER SOAP FUNGICIDE CONCENTRATE 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.

Crop	Diseases Controlled	Application Notes
Pine	Needle Blight	Mix at a rate of 0.5 to 2.0 fluid ounces of NATURAL GUARD'S BRAND BY Ferti-lones *COPPER SOAP FUNGIOIDE CONCENTRATE with one gallon water. Spray until needles are thoroughly wet with spray. Apply when new needles are just emerging.

	Ornamentals	And Turf Continued
Rose And Omamental 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	INATURAL GUARD® BRAND BY forth-lome® COPPER SOAP PUNGICIDE CONCENTRATE may cause copper toxicity on some rose varieties. Copper toxicity on some rose varieties. Copper toxicity appears as purple spots. For Black spot, mix at a rate of 1.44 fl. cos. or INCUI 1140° COPPER SOAP per gallon of water. For Powdery Mildew, mix at a rate of 1.08 fl. cos. of INATURAL GUARD® BRAND BY ferti-lome® COPPER SOAP PUNGICIDE CONCENTRATE CONCENTRATE or gallon of vater. In damp cool conditions (below 60°F), phytotoxicity is likely to occur with the use of NATURAL GUARD® BRAND BY ferti-lome® COPPER SOAP PUNGICIDE CONCENTRATE.
Sycamore	Anthracnose Leaf Spot	Make first application just before buds begin to swell, and repeat twice, at 7-day intervals.

Turf	Ascochyta Leaf Blight, Cercospora Leaf Spots, Dollar Spot	And Turf Continued 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 10 maintain recommended height. Water before non to allow grass to dry. Water thoroughly only as required to audit moliture SARAND SY fearl-lome" COPPER SOAP FUNGIOIDE CONDENTRATE 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 burf shading and to improve air movement.
	Rust	To reduce rust mow frequently to reduce rust spore production. Water and fertilize and sertilize the water desired by audit moisture and nutrient stress. Water before noon to along wass to rive, Apply, NATURAL GUBROW BRAND BY fertil-nome* COPPER SADP PUNICIDE CONCENTRATE when disease first appears, and repeat at 7 to 10 day intervals for as long as needed. In requently diseased areas, prune adjacent trees and shrubs to reduce fur shading and to improve air movement.

	FRUITS AND VEG	ETABLES
Crop	Diseases Controlled	Application Notes
Bean, Pea	Anthracnose Leaf And Fruit Spot, Asocchyfa 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. Do not apply more than 88 fl. oz. product/1000 sq. ft. per year for beans. Do not apply more than 73 fl. oz. product/1000 sq. ft. per year for peas.
Beet, Chard, Spinach	Cercospora Leaf Spot, Downy Mildew, White Rust, Powdery Mildew	Repeat application every 7-10 days if necessary. Do not apply more than 146 ft. oz. product/1000 sq. ft. per year for beets. Do not apply more than 73 ft. oz. product/1000 sq. ft. per year for spinach and chard.
Carrots	Alternaria Leaf Blight, Bacterial Leaf Blight, Cercospora Leaf Blight	Repeat application every 7-10 days if necessary. Do not apply more than 93 fl. oz. product/1000 sq. ft. per year for carrots.
Celery And Celeriac	Bacterial Leaf Spot, Cercospora (Early) Blight, Septoria (Late) Blight	Repeat application every 7-10 days if necessary. Do not apply more than 98 fl. oz. product/1000 sq. ft. per year.

	Fruits And Vegetable	es Continued
Citrus (Grapefruit, Lemon, Lime, Orange, Pummelo, Tangerine)	Melanose Spot, Greasy Spot, Citrus Scah, Alternaria Brown Spot, Citrus Canker, Phytophthora Brown Rot, And Septoria.	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. Do not apply more than 235 fl. oz. product/1000 sq. ft. per year.
Com	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, Common Or Southern Rust, Gray Leaf Spot, Stewart's Witt, Bacterial Stalk Rot*	Repeat application every 7-10 day s if necessary. Do not apply more than 78 ft. oz. product/1000 sq. ft. per year.

	Fruits And Vegetable	es Continued
Crucifer Crops (Bok Choy, Broccoli, Brussels Sprouts, Canola, Cauliflower, Cabbage, Kale, Kohlrabi, Mustard, Pak- Choi, Rape, Rutabaga, Tumip)	Alternaria Bilight, Bacterial Leaf Spot, Downy Mildew, Powdery Mildew, White Mold (Sclerotinia)	Repeat application every 7-10 day s if necessary. Do not apply more than 49 fl. oz. product/1000 sq. ft. per year.
Cucurbits (Cucumbers, Cantaloupe, Melons, Squash, Pumpkin, Zucchini)	Alternaria Blight, Angular Leaf Spot, Anthracnose Leaf And Fruit Spot, Downy Mildew, Gray Mold, Scab, Ulocaldium Leaf Spot, Powdery Mildew	For cucumbers grown in a greenhouse, apply NATURAL GUARD® BRAND BY ferti-flome® COPPER SOAP FUNGLICIDE CONCENTRATE 2 times per week in the first 2 weeks after emergence, followed by sprays every 7 days. Do not apply more than 97 fl. oz. product/1000 sq. ft. per year.
Currant And Gooseberry	Anthracnose Leaf And Fruit Spot, Phyllosticta, Septoria Leaf Spots, Powdery Mildew	Repeat application every 7-10 days if necessary. Do not apply more than 298 fl. oz. product/1000 sq. ft. per year.

	Fruits And Vegetable	es Continued
Ginseng	Alternaria Blight, Botrytis Blight, Phytophthora, Powdery Mildew	Repeat application every 7-10 days if necessary. Do not apply more than 97 fl. oz. product/1000 sq. ft. per year.
Herbs (Basil, Chives, Coriander, Dill,Lavender, Mint, Parsley, Rosemary)	Anthracnose, Alternaria Bilght, Bacterial Blight, Botryts, Downy Midiew, Leaf Scorch, Leaf Spot, Rhizoctonia Leaf Blight	Repeat applications every 10 to 14 days if necessary. Do not apply more than 49 fl. oc. product/1000 sq. ft. per year for chives, coriander, basil, lavender, mint and rosemary. Do not apply more than 73 fl. oc. product/1000 sq. ft. per year for dill. Do not apply more than 37 fl. oz. product/1000 sq. ft. per year for product/1000 sq. ft. per year for parsley.
Grapes	Downy Midew, Black Rot, Phomogasic Care And Leaf Spot, Powdery Midew, Gray Mold (Bothytis)	Repeat application every 7-10 days if necessary. Do not mix NATURAL GUARDE BRAND BY forti-olme* COPPER SOAP FUNGICIDE CONCENTRATE with lime. Certain Vinifiera 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. Do not apply more than 373 fl. oz. product/1009 sot. fl. per year.

Fruits And Vegetables Continued				
Нор	Anthracnose Leaf And Fruit Spot, Cercospora Leaf Spot, Downy Mildew, Powdery Mildew	Repeat application every 10 days if necessary. Do not apply more than 49 fl. oz. product/1000 sq. ft. per year.		
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. Do not apply more than 149 ft. oz. product/1000 sq. ft. per year.		
Onion, Garlic, Leek, Shallot	Botrytis Leaf Blight, Downy Mildew, Neck Rot, Bacterial Soft Rot	Repeat application every 7-10 days if necessary. Do not apply more than 112 fl. oz. product/1000 sq. ft. per year.		
Peanuts	Sclerotinia Blight, Leaf Spots (Early And Late), Web Blotch	Repeat application every 7-10 days if necessary. Do not apply more than 88 fl. oz. product/1000 sq. ft. per year.		

	Fruits And Vegetables Continued				
Pome Fruits (Apples, Pears, Quince)	Arthranose, Cedar Apple Rust, Fireblight, Scab, Sody Blotch, Pyspeck, Quince Rust	For freblight control, apply MNATURAL GUARD® BRAND BY ferti-lome® COPPER SOAP FUNGIODE CONCENTRATE in the dormant period, during bloom, or in-season cower spray applications. Do not exceed one application between silver tip and green tip growth stages. May cause russeting of susceptible apple varieties. Do not exceed 1 gallon of product per 100 gallons of water. Repeat application every 7-10 days if necessary, Do not apply more than 298 ft. oz. product/1000 sy. ft. per year.			
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. Do not apply more than 156 fl. oz. product/1000 sq. ft. per year for blueberries. Do not apply more than 186 fl. oz. product/1000 sq. ft. per year for blackberries and raspberries.			

	Fruits And Vegetabl	
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 floud 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, Do not apply more than 335 fit. oz. product/1000 sq. ft. per year.
	Anthracnose 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, Phornopsis 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.
	Anthracnose Fruit Rot, Gray Mold (Botrytis)	Apply at the start of flowering and continue every 7 to 10 days until harvest. Do not apply more than 152 fl. oz. product/1000 sq. ft. per year.

Fruits And Vegetables Continued				
Tobacco	Blue Mold (Downy Mildew)	Repeat application every 10 days if necessary. Do not apply more than 149 fl. oz. product/1000 sq. ft. per year.		
Tomato, Potato, Eggplant, Pepper	Anthracnose Leaf And Fruit Sput, Bacterial Speck, Bacterial Sput, Cerrospora Leaf Sput, Early Bilipht, Gray Mold, Late Bilght, Leaf Mold, Septoria Leaf Spot	Repeat application every 7-10 days if necessary. Use the 2 ft. oz. per gallon of water dilution rate for late blight. Do not apply more than 149 ft. oz. product/1000 sq. ft. per year for tomatoes. Do not apply more than 46 ft. oz. product/1000 sq. ft. per year for potatoes. Do not apply more than 46 ft. oz. product/1000 sq. ft. per year for potatoes. Do not apply more than 22 ft. oz. product/1000 sq. ft. per year for peppers. Do not apply more than 27 ft. oz. product/1000 sq. ft. per year for peppers. Do not apply more than 28 ft. product/1000 sq. ft. per year for peppers. Do not apply more than 28 ft. per year for peppers. Do not apply more than 28 ft. per year for peppers. Do not apply more than 28 ft. per year for peppers.		
Walnut	Blight	Repeat application every 7-10 days if necessary. Do not apply more than 596 fl. oz. product/1000 sq. ft. per year.		

^{*}Not registered for use in California

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.

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 risk of any such use. Seller makes no other warranties, either expressed or implied.

