

# GROTTO™

## Flowable Liquid Copper Fungicide



A LIQUID COPPER FORMULATION FOR BROAD SPECTRUM CONTROL OF LISTED FUNGAL AND BACTERIAL\* DISEASES ON GREENHOUSE AND SHADEHOUSE VEGETABLES AND HERBS, ORNAMENTALS AND TURF. APPROVED FOR ORGANIC PRODUCTION.

Commercial use only

\*Non-public health bacteria

### Product Information Bulletin 483

#### GENERAL INFORMATION

**GROTTO™** is an effective fungicide/bactericide for prevention and control of diseases on a variety of plants and crops.

**GROTTO** is a liquid formulation of 10% copper octanoate (copper soap).

**Common Name:** Copper Octanoate

**Class:** Inorganic

GROUP	M1	FUNGICIDE
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**Packaging:** 1 gallon container, 4 per case

#### RESTRICTED ENTRY INTERVAL (REI) AND SIGNAL WORD

REI = **4 hours**

Signal Word = **CAUTION**

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators and other handlers must wear (see the container label for more detail):

- long-sleeved shirt and long pants
- shoes plus socks
- chemical resistant gloves made of any water-proof material, such as polyvinyl chloride, nitrile rubber or butyl rubber

#### MODE OF ACTION

**GROTTO** works at multiple sites. Absorbed copper disrupts the enzyme systems of the fungal and bacterial pathogens. **GROTTO** works both as a curative and a preventative fungicide. For best control, apply **GROTTO** when disease symptoms first appear.

#### For Organic Production



#### USE SITES

**GROTTO** may be used on ornamental plants grown in commercial greenhouses and nurseries, and on:

- conifers
- vegetables
- herbs
- fruit
- nut crops
- turf

*(see container label for all uses)*

#### APPLICATION RATES

**GROTTO** may be applied as a foliar spray on ornamental plants and crops listed. Apply **GROTTO** at 0.5 to 2.0 gallons per 100 gallons over the area to be treated. See the container label for more details on application volumes for bench or potted plants.

#### KEY DISEASES CONTROLLED

- Anthracnose
- Bacterial Leaf Spot and Blight
- Botrytis
- Downy Mildew
- Fire Blight
- Fungal Leaf Spot
- Powdery Mildew

*(see container label for complete list of diseases controlled)*

#### TANK MIXING

Tank mixing is permitted with **GROTTO** for broader spectrum disease control. The pH of the mixed solution should be above 6.5 to minimize risk of phytotoxicity and crop damage. Do not tank mix with Areca® or other acid forming materials. Growers should test for compatibility and make sure to follow all directions and precautions on labels prior to application.



Xanthomonas on hibiscus



Xanthomonas on oak leaf hydrangea



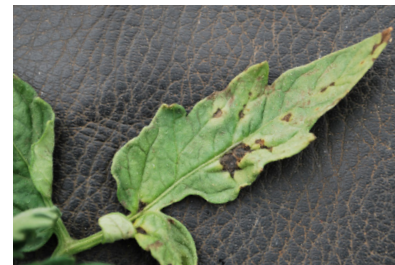
Xanthomonas on rosemary



Xanthomonas on ivy



Xanthomonas on geranium



Pseudomonas bacterial speck on tomato



Pseudomonas on hibiscus



Pseudomonas olive knot on oleander



Prunus bacterial shothole

## GROTTO Efficacy Trial Summary - Best Uses

PATHOGEN	TEST CROP	RESULT
Alternaria	cabbage, impatiens, tomato	none-good
Cercospora	crape myrtle	some
Corynespora	hydrangea	very good-excellent
Entomosporium	photinia	good
Fireblight	pear	very good
Powdery mildew	hydrangea, melon, grape	good-excellent
Pseudomonas	lilac, peach, blueberry	some-very good
Scab	apple	some
Xanthomonas	peach, strawberry, begonia, tomato	good-very good

Summary prepared by Chase Agricultural Consulting.



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Use of GROTTO according to the labeling is subject to the use precautions and limitations imposed by the label affixed to the container of GROTTO. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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OHP483 04/2020