

# KALMOR®

## Fungicide/Bactericide



An American Vanguard Company

AN EFFECTIVE FUNGICIDE/BACTERICIDE FOR PREVENTION AND CONTROL OF DISEASES IN GREENHOUSE AND ORNAMENTAL CROPS, FRUITS, VEGETABLES AND TREE CROPS

### Product Information Bulletin

485

## GENERAL INFORMATION

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

**KALMOR** is a dry flowable formulation with 46% Copper Hydroxide.

**Common Name:** Copper Hydroxide

**Class:** Inorganic

GROUP	M01	FUNGICIDE
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**Packaging:** 2.5 lbs. bag, 4 per case

## RESTRICTED ENTRY INTEVAL (REI) AND SIGNAL WORD

REI for Greenhouse Uses ONLY: **24 hours** with eye wash stations (refer to the container label for further information)

REI for Outdoor Uses and no eye wash station: **48 hours**

Signal Word: **Caution**

## PERSONAL PROTECTION EQUIPMENT (PPE)

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

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

## MODE OF ACTION

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



## USE SITES

**KALMOR** may be used on ornamental plants grown in commercial greenhouses and nurseries, and on conifers, vegetables, small fruits, nuts, etc. See the container label for all uses.

## APPLICATION RATES

**KALMOR** may be applied as a foliar spray or drench on ornamental plants.

Apply **KALMOR** at 0.5 to 2.0 lbs. per 100 gallons over the area to be treated. See the container label for more details on application drench volumes for bench or potted plants.

## Key Diseases Controlled

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

(see container label for complete list of diseases controlled)

## TANK MIXING

Tank mixing is permitted with **KALMOR** 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™, Aliette® or other acid forming materials. Growers should test for compatibility and make sure to follow all directions and precautions on labels prior to application.

## Copper products particle size comparisons



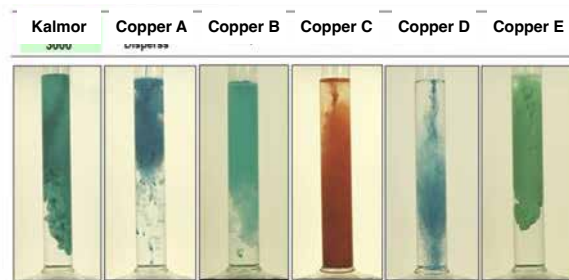
## Understanding Copper Particle Size and Bio-Availability

- The **KALMOR** formulation has been optimized to provide high levels of bio-availability while at the same time reducing the copper load on the plants and environment.
- Bio-availability is the potential for copper ions to be accessible for dilution and biologically active against pathogens
- Large particles are more readily dislodged from plant surfaces by rain or irrigation
- Smaller particles, like those comprising **KALMOR**, adhere better and provide longer residual control
- Copper at 0.75 microns has 64 x more particles per pound than copper at 3.0 microns (Rosenberger, D., Cornell University)

## KALMOR is a low solubility (insoluble) copper

- Fixed copper
- Spray solution of fixed copper: suspension of copper particles
- Particles persist on leaf surface after drying
- Gradual release of copper ions when particles react with water on the leaf surface
- Residual protection; reduces phytotoxicity to plant tissues

### KALMOR Formulation Excellence



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

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An American Vanguard Company

5151 McCrimmon Pkwy.  
Suite 275  
Morrisville NC 27560  
Technical Service: 800-356-4647  
ohp.com