

BOTECTOR®

TECHNICAL BULLETIN

EFFECTIVELY CONTROLS POST-HARVEST ROTS IN POME FRUIT



Botector® is a highly effective biofungicide that works through competitive exclusion to prevent various fungal diseases, which can lead to significant crop losses and may negatively impact fruit quality. In addition to preventing post-harvest diseases in pome

fruit, Botector® is approved for use in the control of botrytis in grapes, berries and tomatoes; anthracnose, phomopsis and rhizopus rots in berries; Eastern filbert blight in hazelnuts; and blossom blight brown rot in stone fruit and almonds.

PRODUCT BENEFITS

- Works through competitive exclusion to prevent disease
- Ideal for use in Integrated Pest Management Programs
- Exempt from Maximum Residue Limits (MRLs)
- Zero pre-harvest interval
- No pathogen resistance
- Safe for pollinators and beneficial insects
- Approved for certified organic production

Mode of Action: Competition for Space and Nutrients

Botector® contains naturally-occurring ubiquitous microorganisms (*Aureobasidium pullulans*) that prevent the pathogen from colonizing infection sites on the grape or berry surface. Botector® inhibits the pathogen through natural competition for space and nutrients. It aggressively colonizes the flower and fruit surfaces, blocking the site of infection. Since Botector® acts as a competitive antagonist and does not directly affect the metabolism of the pathogen, there is no risk of developing resistance, even with frequent applications.

PRODUCT STORAGE AND STABILITY

- **KEEP REFRIGERATED FOR MAXIMUM SHELF LIFE. DO NOT FREEZE.**
- From date of manufacture, Botector® can be stored 30 months at cold temperature (not to exceed 46°F), or 18 months at room temperature (not to exceed 68°F).
- Botector® must be stored out of direct sunlight in a cool dry place.
- Always keep out of reach of children.
- Wastes resulting from the use of Botector® may be disposed of on-site or at an approved waste disposal facility.

APPLICATION TIMING FOR POME FRUIT

Starting 5 weeks prior to harvest, apply up to 6 applications of Botector® with intervals of 5-7 days, depending on infection pressure.

Since Botector® is not systemic, new tissue is not protected against disease. Time the applications to minimize unprotected tissue.

APPLICATION RATE FOR POME FRUIT

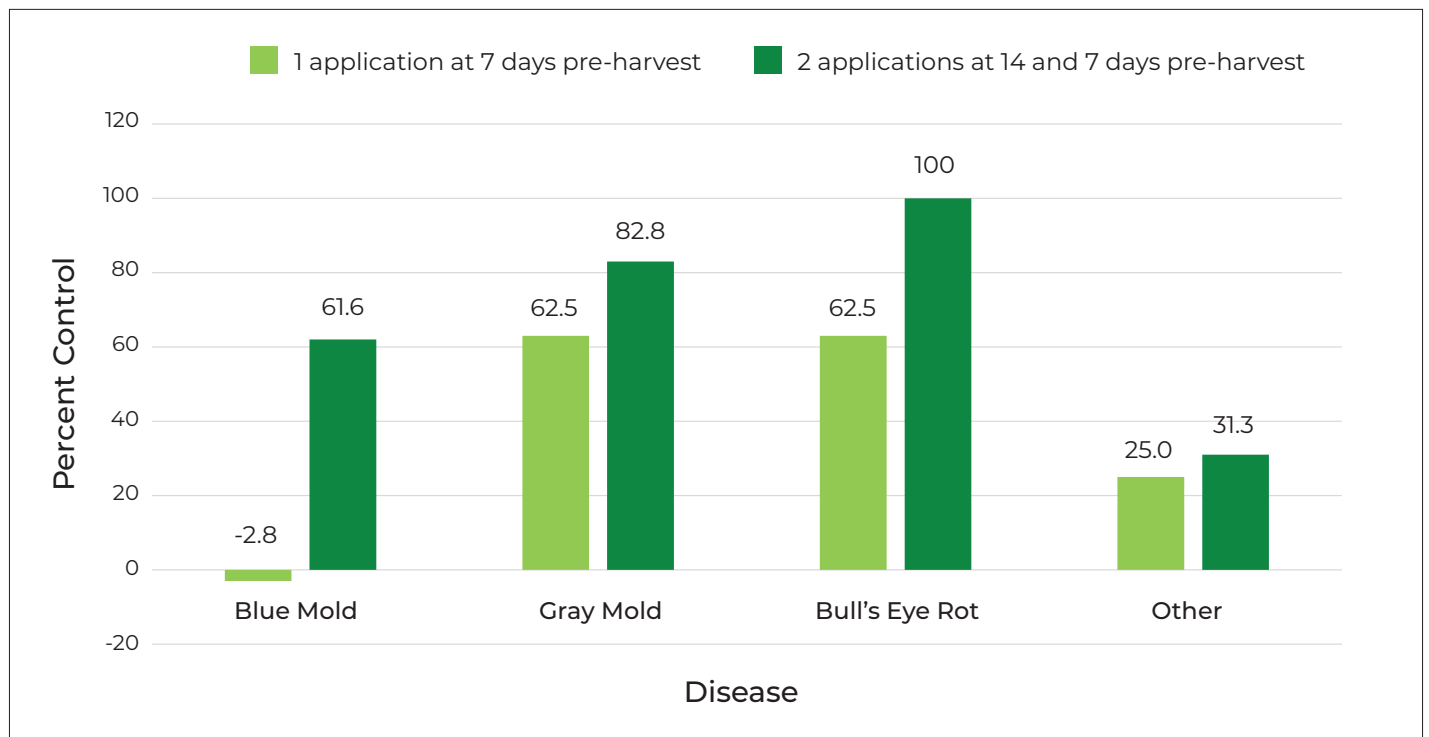
Apply 8-14 ounces per acre with 50-500 gallons of water.

COMPATIBILITY/MISCIBILITY:

For detailed information on the compatibility of Botector® with other products, please refer to: <http://www.bio-ferm.com/en/products/botector/>

Pre-Harvest Applications of Botector® Improve Control of Post-Harvest Diseases in Golden Delicious Apples

University Trial, WA, 2018



- Control incidence for each disease was 17.7%, 6.4%, 3.2%, and 1.6%, respectively.
- Treatment 1 = 7 day pre-harvest at 10 oz/acre
- Treatment 2 = 14 day and 7 day pre-harvest at 11 oz/acre
- 100 fruit per treatment, 25 each from replicate trees



FOR ORGANIC PRODUCTION