

BotryStop[™]

Biofungicide | Technical Bulletin



TECHNICAL DESCRIPTION

ACTIVE INGREDIENT:

Ulocladium oudemansii (U3 Strain) * 45.00%

OTHER INGREDIENTS: 55.00%

TOTAL: 100.00%

*Contains not less than 8×10^7 cfu/gram.

BotryStop (OMRI Listed) is a biological control agent developed for the control of pathogens such as *Botrytis cinerea*, *Sclerotinia sclerotiorum*, and *Monilinia* spp.

- BotryStop is a live spore preparation of a non-pathogenic saprophytic fungus
- BotryStop acts as a biological control agent by competing for the same ecological niche as plant pathogens. When BotryStop spores are applied to dead and senescent plant debris they germinate and colonize. The developing mycelia will colonize the dead tissue and additional sporulation can occur. These new spores are then available to colonize remaining dead or senescing tissue
- BotryStop provides protection to blossoms, fruit and plant tissue susceptible to the above pathogens
- BotryStop aggressively occupies the same physical space and out-competes pathogens for the nutrients in the dead and senescing plant tissue; it is a true antagonist
- BotryStop is non-invasive and causes no damage to live plant tissue. With this mode of action, it is highly unlikely that resistance to BotryStop will develop

CHARACTERISTICS:

- Formulation: Water dispersible granule
- Bulk density: TBD
- 4-hour REI
- 0-day PHI. It is exempt from residue tolerance
- Non-toxic
- OMRI listed

Storage and Shelf

- Shelf life of the product is 12 months when refrigerated
- Product must be stored refrigerated
- DO NOT FREEZE the product as it will damage the spores
- Spores begin losing viability after 48 hours at 77°F (25°C)
- Spores rapidly decline in viability at 86°F (30°C)

PRODUCT USAGE:

Application:

- Good coverage and wetting is required
- Make applications as a spray to thoroughly wet plant tissue but avoid runoff

Mixing:

- Application rate range is 2-4 lb product per acre in at least 50 gallons of water. Most commonly used rate is 3 lb/acre
- Use sufficient water volume to provide good coverage and wetting of plant tissue
- Use a conventional or hydraulic sprayer
- Ensure that spray tank is clean
- Continuous agitation is required
- Fill tank halfway and begin agitation
- Add desired amount of BotryStop, fill tank and then add a non-ionic surfactant. A surfactant is necessary for proper product wetting and spreading
- Use spray mixture immediately. Do not allow spray mixture to stand overnight or for prolonged periods
- To minimize residue on ornamental flowers, use small droplet sizes and spray to wet but not runoff

Compatibility:

- BotryStop may be mixed with some fungicides
- Only mix BotryStop with one other product. Do not include in a three-way tank mix
- Use organosilicone surfactants with caution. Avoid those that are also described as “penetrants” or “stomatal flooders or infiltrators” . BioWorks is evaluating compatibility of some organosilicone products
- Refer to the “BotryStop Compatibility Sheet” for product compatibility