

TECHNOTE

BOTECTOR - BOTRYTIS CONTROL IN GRAPES

Botector® is a highly effective biological fungicide for the control of Botrytis Bunch Rot/Grey Mould by providing a protective layer to prevent disease infection.

KEY FEATURES

- Works to control Botrytis through competitive exclusion
- No effect on wine quality
- No known resistance
- No pre-harvest interval when used as directed
- Approved for organic production

MODE OF ACTION

Botector contains naturally-occurring microorganisms (*Aureobasidium pullulans*) that prevent the Botrytis from colonising the grape surface. Botector inhibits the Botrytis through natural competition for space. It aggressively colonises the flower and fruit surfaces, blocking the site of infection.

Since Botector acts as a competitor and does not directly affect the metabolism of the pathogen, there is a low risk of developing resistance.

PRODUCT STORAGE AND STABILITY

- DO NOT store or transport above 20°C
- KEEP REFRIGERATED FOR MAXIMUM SHELF LIFE - DO NOT FREEZE
- Botector must be stored out of direct sunlight in a cool dry place
- Always use before the expiry date on the container

GRAPE APPLICATION TIMING AND RATES

Apply 100g/100L sprayed into the bunch zone as a preventative spray at the following growth stages:

- Between EL 18-25
- Before bunch closure
- During veraison
- During ripening**



DIRECTIONS FOR USE

RESTRAINTS:

DO NOT apply during the hottest part of the day when temperatures exceed 25°C.

DO NOT apply if it is likely to rain before the spray is dry.

CROP	PEST	RATE	WHP	CRITICAL COMMENTS
Grapes	Botrytis Bunch Rot/ Grey Mould (Botrytis cinerea)	100 g/100 L (minimum rate: 400 g/ha, maximum rate: 1 kg/ha)	0 days before harvest	Botector should be applied as a preventative treatment within the recommended growth stages. Apply as part of a botrytis bunch rot program, using up to 4 applications, particularly when weather conditions favour disease infection. Application should ensure penetration of canopy and thorough even coverage of flowers/bunches, from growth stages EL 25-37.

DRAFT LABEL ONLY. CONSULT THE FINAL LABEL PRIOR TO USE OF BOTECTOR.

GENERAL INSTRUCTIONS

Botector should be applied preventatively within the recommended growth stages. The product competes for space and nutrients with the pathogen. Ensure the spray vat and nozzles are rinsed well with water following application.

MIXING

Partly fill the spray tank with water and add the required amount of product while agitating. If required, add compatible products and agitate thoroughly. Continue agitation as filling of the tank is completed. Ensure the temperature of the tank mixture is below 25°C.

Agitate mixture before and during application. Use the spray mixture within 8 hours of preparation.

APPLICATION

Botector must be applied when the temperature is below 25°C, preferably under slow drying conditions. Depending on weather conditions, Botrytis infection

starts during the flowering period or later, and continues throughout the vegetation period. Therefore, to ensure consistent protection against Botrytis infection, applications as a foliar spray into the bunch zone or the whole canopy at the following stages are recommended:

- EL Phenological Stage
- 25 80% capfall
- 31 Beginning of bunch closure
- 35 Veraison
- 37 During ripening

Botector is not mobile within the canopy so coverage is critical. Apply sufficient water to wet all surfaces up to the point of run-off. Apply using MEDIUM spray droplets. Air-blast sprayers are recommended for application to vines with very dense foliage.

Botector can be applied up to the date of harvest.

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*1-3 applications depending on infection pressure

**Additional applications with intervals of 3-7 days depending on infection pressure.



Reference Source: Australian Pesticides and Veterinary Medicines Authority - Public Release Summary August 2017 – on evaluation of the new active Aureobasidium pullulans (strains DSM 14940 and DSM 14941) in the product Botector Fungicide August 2017. - Licensed from the Australian Pesticides and Veterinary Medicines Authority (APVMA) under a Creative Commons Attribution 3.0 Australia Licence.

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