



READ SAFETY DIRECTIONS BEFORE OPENING OR USING

# Serifel Biofungicide

ACTIVE CONSTITUENT: 110 g/kg ( $>5.5 \times 10^{10}$  CFU/g) *Bacillus amyloliquifaciens* strain MBI600

GROUP	<b>44</b>	FUNGICIDE
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For the control of *Botrytis cinerea* in grapes and strawberries

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE OPENING OR USING

CONTENTS: 50g, 500g, 1kg, 2kg, 2.5kg, 5kg, 10kg, 20kg, 2 x 500g, 4 x 500g, 5x 500g, 10 x 500g

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APVMA Approval No.: 82600/106178

## DIRECTIONS FOR USE

### RESTRAINTS

Do not apply during rain or if rain is expected.

Do not apply by aircraft.

A maximum of 10 applications can be made per growing season.

Maximum total dose of 5kg/ha per growing season.

### SPRAY DRIFT RESTRAINTS

DO NOT apply when wind speed is less than 3 or more than 20 km per hour.

Users of this product MUST make an accurate written record of the details of each spray application within 24 hours following application and KEEP this record for a minimum of 2 years. The spray application details that must be recorded are: 1) date with start and finish times of application; 2) location address and paddock/s sprayed; 3) full name of this product; 4) amount of product used per hectare and number of hectares applied to; 5) crop/situation and weed/pest; 6) wind speed and direction during application; 7) air temperature and relative humidity during application; 8) nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application; 9) name and address of person applying this product. (Additional record details may be required by the state or territory where this product is used.)

Crop	Disease	Rate	Critical Comments
<b>Grapevines</b>	Botrytis bunch rot / Grey mould ( <i>Botrytis cinerea</i> )	50 -75 g/100L	<p>Apply Serifel preventatively, prior to an infection period and the development of disease.</p> <p>Continue applications on a 3-14 day interval as required, when conditions favour botrytis infection and development. Use the higher rate when high disease pressure is expected</p> <p>Key application timings include flowering, pre-bunch closure, veraison and pre-harvest. Serifel is best applied as part of an integrated botrytis management program.</p> <p>Mix and apply Serifel in a sufficient volume of water to ensure uniform dispersion in the spray tank and thorough coverage of foliage, flowers and fruit.</p> <p>Apply by dilute or concentrate spraying equipment.</p> <p>Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.</p> <p>For concentrate spraying do not use at rates greater than 2 times the dilute spraying rate (i.e. at a concentration factor greater than 2X) – refer 'Application' section in GENERAL INSTRUCTIONS</p>
<b>Strawberries</b>	Grey mould ( <i>Botrytis cinerea</i> )	500 g/ha	<p>Apply Serifel preventatively, prior to an infection period and the development of disease.</p> <p>Continue applications on a 3-14 day interval as required, when conditions favour botrytis infection and development.</p> <p>Key application timing commences at or before flowering. Serifel is best applied as part of an integrated botrytis management program.</p> <p>Mix and apply Serifel in a sufficient volume of water to ensure uniform dispersion in the spray tank and thorough coverage of foliage, flowers and fruit.</p>

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

**WITHHOLDING PERIODS:**

Not required when used as directed

**GENERAL INSTRUCTIONS****MIXING**

Before use ensure that all application equipment is clean. Add half the required volume of water and start agitation. Add the required quantity of Serifel. Fill the tank to the required volume whilst maintaining agitation. Continuous agitation must be maintained until spraying is complete. Spray pH must be not less than pH 4.5 and not greater than pH 9

Following storage, Serifel biofungicide may take longer to disperse. To ensure good dispersion, premix with a small amount of water.

All application equipment should be cleaned thoroughly with water prior to storage.

**APPLICATION****Dilute Spraying**

- ◆ Use a sprayer designed to apply high spray volumes, up to the point of run-off and matched to the crop being sprayed.
- ◆ Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient spray solution to cover the crop to the point of run-off. Avoid excessive run-off.
- ◆ The required spray volume to achieve point of run off may be determined by applying different test volumes, using different settings on the sprayer, or from industry guidelines or other expert advice.
- ◆ Add the amount of product specified in the Directions for Use Table for each 100 L of water. Spray to the point of run-off.
- ◆ The required dilute spray volume to achieve point of run off will change and the sprayer set up and operation may also need to be changed, as the crop grows.

**Concentrate Spraying**

- ◆ Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies spray volumes less than those required to reach the point of run-off) and matched to the crop being sprayed.
- ◆ Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen spray volume.
- ◆ Determine an appropriate dilute spray volume (See Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate.
- ◆ The mixing rate for concentrate spraying can then be calculated in the following way:

**EXAMPLE ONLY**

1. Dilute spray volume as determined above: For example 1000 L/ha
  2. Your chosen concentrate spray volume: For example 500 L/ha
  3. The concentration factor in this example is: 3 X (i.e.  $1000 \text{ L} \div 500 \text{ L} = 2$ )
  4. If the dilute label rate is 50 g/100 L, then the concentrate rate becomes 2 x 50 (that is 100 g of product per 100 L water for concentrate spraying).
- ◆ The chosen spray volume, amount of product per 100 L of water, and the sprayer set up and operation may need to be changed as the crop grows.
  - ◆ For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

**COMPATIBILITY**

For information on the potential to tank mix Serifel with other products, contact your local distributor or BASF.

**RE-ENTRY PERIOD**

Not required when used as directed

**PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container

## STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.

The product is stable for 34 months if stored between 4 °C and 25 °C.

### 50 g - 20 kg HDPE CONTAINERS:

Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

Single-rinse or shake remainder into spray tank/water/dip/drench, etc. Do not dispose of undiluted chemicals on site.

### 1 X 500 g - 10 X 500 g FOIL AND PLASTIC BAGS:

Puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

## SAFETY DIRECTIONS

Harmful if inhaled. Will irritate the eyes. Repeated exposure may cause allergic disorders. Do not inhale dust or spray mist. Avoid contact with the eyes. When opening the container and preparing the spray wear cotton overalls buttoned to the neck and wrist, a washable hat, disposable dust face mask covering mouth and nose and disposable gloves. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use wash contaminated clothing

## FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26

## SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet.

## CONDITIONS OF SALE

All conditions and warranties rights and remedies implied by law or arising in contract or tort whether due to the negligence of BASF Australia Ltd or otherwise are hereby expressly excluded so far as the same may legally be done provided however that any rights of the Buyer pursuant to non-excludable conditions or warranties of the Competition and Consumer Act 2010 or any relevant legislation of any State are expressly preserved but the liability of BASF Australia Ltd or any intermediate Seller pursuant thereto shall be limited if so permitted by the said legislation to the replacement of the goods sold or the supply of equivalent goods and all liability for indirect or consequential loss or damage of whatsoever nature is expressly excluded. This product must be used or applied strictly in accordance with the instructions appearing hereon. This product is solely sold for use in Australia and must not be exported without the prior written consent of BASF Australia Ltd.

APVMA Approval No: 82600/106178

Batch No:

Date of Manufacture:

BASF Australia Ltd

ABN 62 008 437 867

Level 12, 28 Freshwater Place

Southbank VICTORIA 3006

FOR SPECIALIST ADVICE IN AN EMERGENCY ONLY PHONE 1800 803 440 TOLL FREE-ALL HOURS-AUSTRALIA WIDE

**This product does not require a hazard warning label according the GHS criteria.**