

# FRUTOGARD®

MAPP 19105

GROUP P07 FUNGICIDE

440365

A soluble concentrate formulation containing 342 g/L potassium phosphonate (228 g/L phosphonic acid equivalents). A protectant fungicide for the reduction of downy mildew in grapes.

THE (COSHH) CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS MAY APPLY TO THE USE OF THIS PRODUCT AT WORK.

## SAFETY PRECAUTIONS

### Environmental Protection

**LERAP B**  
To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

Do not allow direct spray from horizontal boom and hand held sprayers to fall within the 15 m of the top of the bank of any static or flowing waterbody or within 1 m of the top of a ditch which is dry at the time of Aim spray away from water.

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. The statutory buffer zone must be maintained, and the distance recorded in the LERAP record form. The results of the LERAP record form must be kept available for three years.

### Storage and Disposal

KEEP OUT OF REACH OF CHILDREN.  
DO NOT RE-USE CONTAINER for any purpose.  
Keep dry and protect from frost.

## IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL FUNGICIDE

Crops/situations	Maximum individual dose (L product/ha)	Maximum total dose (L product/ha/year)	Maximum number of treatments (per year)	Latest time of application
Table and wine grapes	4,5	27	6	24 days before harvest

### Other specific restrictions

1) A minimum interval of 7 days must be observed between applications.

**READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.**

### FRUTOGARD

A soluble concentrate formulation containing 342 g/L potassium phosphonate (228 g/L phosphonic acid equivalents).

P501- Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty, triple rinsed clean containers which can be disposed of as non-hazardous waste.

**To avoid risks to human health and the environment, comply with the instructions of use.**

MAPP 19105

FUNGICIDE

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### DIRECTIONS FOR USE:

Refer to instructions attached to this pack.

### READ CAREFULLY BEFORE OPENING THE BOTTLE

### Material Safety Data Sheet



To access the Safety Data Sheet for this product, scan the QR code or use the web link.

<https://cutt.ly/rvjN7v>

Alternatively, contact your supplier.

Batch No.: Date of Manufacture: - See container

**For advice on medical emergencies, fires, spillages or chemical hazards ONLY - phone + 44 (0)870 190 6777**

For technical and non-emergency calls phone +44 (0)845 373 0305

PROTECT FROM FROST



**Certis Belchim**  
GROWING TOGETHER

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**10L**

# FRUTOGARD®

## DIRECTIONS FOR USE

**IMPORTANT:** This information is authorised as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

### Restrictions/Warnings

Do not apply to crops with wet foliage, or if rain is expected.

### Disease Control

FRUTOGARD is a fungicide for preventative use in grapes to reduce downy mildew *Plasmopara viticola* infections. For season long control FRUTOGARD should be applied as part of a programme with other authorised fungicides with a different mode of action.

### Resistance

FRUTOGARD contains potassium phosphonates which are from FRAC P07 group and are classed as host plant defence inducers. To prevent or limit the development of downy mildew strains less sensitive to the product, apply in a preventative manner in alternation with other downy mildew products with different modes of action.

### Crop Information

FRUTOGARD can be applied to grapevines at the first signs of infection from growth stage BBCH 12 (2 leaves unfolded).

### Time of Application

Commence applications when there is a risk of infection or when early warning disease risk models indicate the presence of favourable conditions for the development of downy mildew.

**CONDITIONS OF SUPPLY:** The Seller warrants that the goods shall at the time of delivery to the Buyer conform to the Seller's standard specification but all other conditions and warranties, whether express or implied by statute or custom of the trade or otherwise and whether as to condition, quality, performance, merchantability, fitness for any purpose or otherwise, are expressly excluded and, subject as aforesaid, the Seller shall be under no liability whatsoever, in contract or in tort, for or in respect of any loss or damage whatsoever resulting from or arising out of the goods or supply or use thereof, whether caused by the negligence of the Seller or otherwise. The Seller shall be under no liability in respect of the warranty given above unless the Buyer allows the Seller reasonable opportunity of inspecting the goods where practicable. A consumer's statutory rights are not affected.

### Application rate:

Early application (before inflorescence):

- apply 1.5 L FRUTOGARD in 150 – 400 L of water per hectare. Beginning of flowering (BBCH 61);
- apply 3.0 L FRUTOGARD in 300 – 800 L of water per hectare. Up to end of flowering (BBCH 68);
- apply 4.5 L FRUTOGARD in 400 – 1200 L of water per hectare.

Use higher water volumes where necessary to achieve thorough coverage.

Interval between applications: 7 days

### Mixing and Application

Apply FRUTOGARD with medium to fine spray quality ensuring thorough coverage. For mixing half-fill the spray tank with water and start the agitation. Shake the container of the product well before use and pour in the required amount. Rinse empty containers thoroughly and add rinsing to the spray tank. Add the remainder of the water and continue agitation until spraying is completed. Spray solution must be used on the day of mixing and must not be left overnight.

### Company Advisory Information

This section is not part of the Product Label under Regulation 1107/2009. It provides additional advice on product use at the discretion of the applicant.

The fungicidal effect of FRUTOGARD is based on the activation of genetically determined resistance of the plants against downy mildew (*Plasmopara viticola*). Applications of FRUTOGARD triggers a cascade of PR proteins ('pathogenesis-related proteins') for the production of phytohormones (eg. <sup>1</sup>PAL, <sup>2</sup>LOX, salicylic acid, jasmonic acid, ethylene, etc.). The formation of H<sub>2</sub>O<sub>2</sub> and physical barriers such as callus or cell wall reinforcement by lignin build up, prevents pathogen infections. The pathogen is not killed, but indirectly affected by the increase of induced plant defense mechanisms.

Mixing with calcium containing products must be avoided as it may lead to a reduction in effectiveness. FRUTOGARD can be mixed with urea containing products.

<sup>1</sup>Lypogenase Activity Enzyme

<sup>2</sup>Phenylalanine ammonia lyase enzymes

