

FRUTOGARD®

MAPP 19105



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.

Batch No:

Pack Size:

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

SAFETY PRECAUTIONS

Environmental Protection

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 15m of the top of the bank of any static or flowing waterbody or within 1m 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.

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/season)	Maximum number of treatments: (per crop)	Latest time of application:
Table and wine grapes	4.5	27	6 per year	24 days before harvest

Other Specific Restrictions

- 1) A minimum interval of 7 days must be observed between applications.
- 2) Do not handle treated foliage until 24 days after treatment.

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

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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.

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DIRECTIONS FOR USE: Refer to leaflet attached to the container.

This label is compliant with the CPA Voluntary Initiative Guidance



Marketed by:

CERTIS

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Approval holder: Tilco-Alginure GmbH, Holländerkoppel 1a, D-23858 Reinfeld, Germany

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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.

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.

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.

Application rate:

Early application (before inflorescence):

- apply 1.5L 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

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. ¹PAL, ²LOX, salicylic acid, jasmonic acid, ethylene, etc.). The formation of H₂O₂ 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.

¹Lypogenase Activity Enzyme

²Phenylalanine ammonia lyase enzymes

END OF LABEL TEXT

Material Safety Data Sheet

The material safety data sheet (MSDS) for this product is available on the Certis UK website or by calling the technical helpline number **0044 (0)845 373 0305**