

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Fungicide



COMBINE 160 WDG

Reg. No. L 9765 Act/Wet No. 36 of/van 1947

1: 24/3/2015 – March 2017

A water dispersible granular systemic fungicide for the control of certain fungal diseases on crops as listed.

'n Water disperseerbare korrel sistemiese swamdoder vir die beheer van sekere swamsiektes op gewasse soos gelys.

ACTIVE INGREDIENTS / AKTIEWE BESTANDELE

dithianon (quinone)	120 g/kg	ditianoon (kinoon)
trifloxystrobin (strobilurine)	40 g/kg	trifloksistrobien (strobilurien)

FRAC FUNGICIDE GROUP CODE **M9** FRAC SWAMDODER GROEPKODE

FRAC FUNGICIDE GROUP CODE **11** FRAC SWAMDODER GROEPKODE

kg

villa

Registration holder / Registrasiehouer:

Villa Crop Protection (Pty) Ltd.

Co. Reg. No. / Mpy. Reg. Nr. 1992/002474/07

PO Box / Posbus 10413, Aston Manor, 1630

Tel: 011 396 2233

Website / Webblad: www.villacrop.co.za

UN Number: 3077

Willow Set & Print 011 394-4486



CAUTION
VERSIGTIG



GEBRUIKSAANWYSINGS INGESLUIT

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

Date formulated:
Formuleringsdatum:

DIRECTIONS FOR USE ENCLOSED

REFER TO DETAILS PRINTED
ON CONTAINER/BAG

Batch number:
Lotnommer:

COMBINE 160 WDG

Reg. No. L 9765 Act/Wet No. 36 of/van 1947

FRAC FUNGICIDE GROUP CODE / FRAC SWAMDODER GROEPKODE: M9 & 11

ACTIVE INGREDIENT / AKTIEWE BESTANDEEL:

dithianon (quinone) / ditianon (kinoon).....120 g/kg
 trifloxystrobin (strobilurine) / trifloksistrobien (strobilurien)40 g/kg

Registration holder / Registrasiehouer:

VILLA CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1992/002474/07 Mpy. Reg. Nr.

P.O. Box / Posbus 801, KEMPTON PARK, 1620

Tel. (011) 396 2233

CAUTION / VERSIGTIG**WARNINGS****Withholding periods:**

Allow the following number of days between the last application and harvest of the following crops:	
Apples	21 days
Pears	21 days

NOTE

THE MAXIMUM RESIDUE (MRL'S) LEVELS WILL NOT BE EXCEEDED, PROVIDED APPLICATIONS ARE APPLIED AS HEREWITH PRESCRIBED. WHEN PRODUCTION IS DESTINED FOR THE EXPORT MARKET, THE EXPORT AGENCY OF CONCERN MUST BE CONTACTED, PRIOR TO THE USE OF COMBINE 160 WDG IN A SPRAY PROGRAMME.

- Handle with care.
- May cause eye and skin irritation.
- Toxic to fish and other aquatic organisms. Do not contaminate dams, rivers, lakes or any other water sources.
- Store the product in the original container and always keep the container tightly closed.
- Store in a cool, dry, well-ventilated place, away from food, seed and animal feeds.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions, because the action and effect thereof may be affected by factors such as abnormal climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the diseases against the remedy concerned, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned, due to failure of the user to follow the label instructions or to the occurrence of conditions, which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS

- Avoid inhalation of the dust and spray mist.
- Avoid prolonged contact of product with skin.
- Wear rubber gloves, a face shield and boots when handling the concentrate.
- Wash contaminated clothes daily.
- Wash thoroughly with soap and water after application and accidental skin contact.
- In case of eye contamination, rinse the eyes thoroughly with plenty of clean, cold water for at least 20 minutes, holding the eyelid(s) open. If irritation persists obtain medical aid immediately.
- Do not eat, drink or smoke whilst mixing or applying or before washing hands and face and change of clothing.
- Prevent spray drift onto other crops, grazing, rivers, dams or areas not under treatment.
- Clean the spraying equipment directly after use by rinsing with clean water and dispose of wash water where it will not contaminate crops, grazing, boreholes, rivers or dams.

- Containers and packages must be completely emptied before being disposed of. Shake out thoroughly into the mixing tank.
- Destroy the empty container/bag by perforation and flattening and dispose of it in a safe way.
- **Never** re-use the empty container/bag for any other purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.

RESISTANCE WARNING

COMBINE 160 WDG is a group codes M9 & 11 fungicide. Any fungus population may contain individuals naturally resistant to **COMBINE 160 WDG** and other group code M9 & 11 fungicides. The resistant individuals may eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **COMBINE 160 WDG** or any other group code M9 & 11 fungicides.

To delay fungicide resistance:

- avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate or tank mix with products from different fungicide group codes,
- for tank mixing or alternation with products in fungicide group codes X and Y, refer to applicable individual product labels,
- integrate other control methods (chemical, cultural, biological) into disease control programmes.

For specific information on resistance management, contact the registration holder of this product.

Additional notes on resistance management:

For the control of apple & pear Scab, it is essential to adhere to the following FRAC (Fungicide Resistance Action Committee) guidelines for the control of apple & pear Scab.

- Apply QoI (strobilurines) fungicides according to manufacturer's recommendations for the target disease (or complex) at the specific crop growth stage indicated and adapted to size of trees. Effective disease management is a critical parameter in delaying the build-up of resistant pathogen populations.
- QoI fungicides must only be applied in mixtures with partners contributing to the effective control of the target pathogens.
- Apply QoI fungicides preventively. Under high disease pressure the spray interval should not exceed 7 to 10 days.
- Apply a maximum of 3 QoI containing sprays per crop per season. A maximum of 4 QoI fungicide applications may be used where twelve (12) or more applications are made per crop per season.
- A maximum of two (2) consecutive QoI fungicide sprays is preferred. Where field performance was adversely affected apply QoI containing fungicides in mixtures in strict alternation with fungicides from a different group.

Refer to the FRAC Website for latest guidelines: (<http://www.frac.info/frac/index.htm>).

USE RESTRICTIONS

- **Do not** apply to wet trees.
- **Do not** apply **COMBINE 160 WDG** on Doyenne du Comice and Kieffer pears.
- **Do not** apply under slow drying conditions as an increase in fruit russet may occur.
- If climatic conditions at the time of application result in slow drying of the spray deposit, some varieties of fruit may show minor skin russet.
- **Do not** apply **COMBINE 160 WDG** within 14 days before, or following an application of a mineral oil to the crop.

DIRECTIONS FOR USE: Only use as directed.

General information:

- Apply **COMBINE 160 WDG** primarily as a preventative application.
- Use alternative registered fungicides with a mode of action that differs from strobilurines / Group Code 11 (QoI) related fungicides.
- The last fungicide treatment of the season **must not be a** strobilurine related fungicide
- Use **COMBINE 160 WDG** as part of an IPM and Good Agricultural Practice (GAP) programme.

Compatibility:

- The compatibility of **COMBINE 160 WDG** in a tank mixture with other products is influenced by the formulations of these products, as well as quality of the spray water. It is recommended that a physical compatibility test always be performed prior to application as the formulation of other products can be altered and the quality of water can vary from area to area.

Mixing instructions:

- Half-fill the mixing tank with clean water.
- Premix the required quantity of **COMBINE 160 WDG** in at least 10 litres of water in another container.
- Add the **COMBINE 160 WDG** mixture into the mixing tank and fill the mixing tank up to the required volume of water.
- If another product is to be added to the mixing tank, premix the required amount of product with at least 10 litres of water, before adding to the mixing tank.
- Ensure continuous agitation during mixing and application.
- Prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.

Application instructions:

- Apply **COMBINE 160 WDG** with correctly calibrated spray equipment that is in good working order.
- The spray volume required for a specific growth stage must be determined accurately according to the Tree-Row-Volume method as described by Unrath (Deciduous Fruit Grower, November 1986). The application volume rate per hectare is then determined according to the spray volume calculated for high volume application per hectare. Refer to the table below.

APPLICATION RATES

Crop / Disease	Dosage rate	Remarks
Apples Scab (<i>Venturia inaequalis</i>) Powdery mildew (<i>Podosphaera leucotricha</i>)	125 g / 100 ℓ water	Refer to “Resistance Management and Application instructions” above. Apply preventively as part of a spray programme.
Pears Scab (<i>Venturia pirina</i>)		Start with the applications at the green-tip stage and apply at weekly intervals until 75 % petal fall. After 75 % petal fall, the spray programme can be extended to 14 days. However, should weather conditions favour disease development during this time, revert back to weekly intervals. COMBINE 160 WDG can be included during any time of the spray programme. However, it is recommended to apply COMBINE 160 WDG between 75 % flowering and early fruit set for optimum disease control.
IMPORTANT		
Use the Tree Row Volume (TRV) formula below to ensure that the correct amount of fungicide is applied per hectare. This is calculated as follows:		
<u>High volume rate:</u>		
The water to be applied per hectare must be calculated according to the TRV formula:		
$\ell / \text{ha} = \frac{\text{Tree height} \times \text{Tree diameter} \times 937}{\text{Row width}}$		
The TRV calculation is the maximum water volume required when the trees are in full leaf. Use the water volume required per hectare to calculate the amount of COMBINE 160 WDG required per hectare according to the various growth stages of a tree during the season.		
Water requirements per hectare as recommended according to the different growth stages of a tree:		
<u>Growth stage</u>	<u>% of the high volume water requirement / ha</u>	
From greentip to ± 30 % blossom	60 %	
From ± full blossom to ± middle November	80 %	
From beginning December	100 %	