

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Fungicide



VILLA UNIZEB 750 WDG

Reg. No. L 8812 Act/Wet No. 36 of/van 1947

3/5/5/2014-June2018

A wettable granule fungicide for the prevention and control of various fungal diseases on crops listed.

'n Benatbare korrel swamdoder vir die voorkoming en beheer van verskeie swamsiektes op gewasse soos hieronder aangedui.

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

mancozeb (dithiocarbamate) **750 g/kg** mankoseb (ditio-karbamaat)

FRAC FUNGICIDE GROUP CODE **M3** 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



GEBRUIKSAANWYSLINGS 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:

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Registration holder / Registrasiehouer:

VILLA CROP PROTECTION (PTY) LTD.

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

PO Box / Posbus 10413, ASTON MANOR, 1630

Tel. (011) 396 2233

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

Allow the following withholding periods between the last application and harvest and/or feeding of the crops concerned:	
Tomatoes	3 days
Table grapes	4 to 6 weeks
Wine grapes	14 days
Apples & Pears	14 days
Citrus	14 days

NOTE

THE RECOMMENDED WITHHOLDING PERIODS MEET LOCAL RESIDUE LEVEL REQUIREMENTS AND NOT NECESSARILY THE REQUIREMENTS FOR EXPORT. WHEN THE CROP IS DESTINED FOR EXPORT, CONSULT THE REQUIREMENTS AND GUIDELINES FOR EXPORT BEFORE VILLA UNIZEB 750 WDG IS USED.

- Do not allow **VILLA UNIZEB 750 WDG** to be exposed to damp and then warm conditions. Flammable vapours are generated under these conditions and **VILLA UNIZEB 750 WDG** should therefore not be kept or stored in the close vicinity of sparks and open flames.
- Handle with care.
- May cause irritation of the skin, eyes and air passages.
- Toxic to fish.
- Keep the container well closed when not in use.
- Store in a cool, dry and well-ventilated place away from food and 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.

Aerial Application:

Notify all inhabitants of the immediate area to be sprayed and issue the necessary warnings. Avoid overlapping of applications and do not spray over or allow drift to contaminate water or adjacent areas.

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 soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the disease or pest to 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 event of any uncertainty.

PRECAUTIONS

- Avoid inhalation of the dust or spray mist.
- Avoid contact with the skin, eyes and clothes.
- Wear a face shield and rubber gloves when mixing the product.
- Wash thoroughly with soap and water after application and accidental contact.
- Do not eat, drink or smoke whilst applying or mixing or before washing hands and face or change of clothing.

- In case of eye contamination, rinse the eyes thoroughly with plenty of clean, cold water for at least 15 minutes. If irritation persists obtain medical aid.
- Prevent drift onto other crops, grazing, rivers, dams or areas not under treatment.
- Clean the applicator after use and dispose of wash water where it will not contaminate food, grazing, rivers or dams.
- Containers/bags must be completely emptied before being disposed of. Shake out thoroughly into the mixing tank, destroy the empty container/bag thereafter and bury it.
- **Do not** re-use it for any other purpose.
- **Do not burn the empty container.**
- Prevent contamination of food, feeds, drinking water and eating utensils.

RESISTANCE WARNING

VILLA UNIZEB 750 WDG is a group code M3 fungicide. Any fungus population may contain individuals naturally resistant to **VILLA UNIZEB 750 WDG** and other group code M3 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **VILLA UNIZEB 750 WDG** or any other group code M3 fungicide.

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, 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.

USE RESTRICTIONS

- **Citrus:** Before commencing with the spray programme, remove all out of season citrus fruit.
- **Table grapes:** Do not apply on table grapes when fruits have reached pea size (4 to 6 weeks prior to harvest), as this may cause tarnishing.
- **Tobacco:** **Note that this product is not registered for use on tobacco or tobacco seedlings.**

DIRECTIONS FOR USE: Use only as directed.

Compatibility:

- **VILLA UNIZEB 750 WDG** is compatible with **Essence 500 WDG, FUNGAWAY® 250 SC** (L 8590 / N-AR 1225), **Connect 500 WDG** and with most fungicides and insecticides.
- **Do not use** with alkaline products, e.g. lime sulphur and Bordeaux mixtures.
- **Citrus:** **Do not use VILLA UNIZEB 750 WDG** together with calcium arsenate or urea on citrus.

Mixing instructions:

- Mix the recommended quantity of **VILLA UNIZEB 750 WDG** in a small quantity of clean water until it forms a thick cream. Half fill the spray tank with clean water, add the cream mixture and ensure thorough agitation. Fill the spray tank with water to the required level. Ensure that thorough agitation of the mixture is maintained during mixing and spraying.
- When emulsifiable concentrates are to be used with **VILLA UNIZEB 750 WDG**, ensure thorough mixing of **VILLA UNIZEB 750 WDG** in the spray tank, before the emulsifiable concentrate is added to the spray tank.

Application instructions:

Do not use overhead irrigation just prior to application of **VILLA UNIZEB 750 WDG**.

Apples and Pears: Low volume (LV) application can be performed with **VILLA UNIZEB 750 WDG**. Refer to the “**APPLICATION RATES**” for instructions. Follow these instructions carefully.

Aerial application:

Aerial application of **VILLA UNIZEB 750 WDG** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- **Volume:** A minimum spray mixture volume of 30 to 40 litres per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- **Droplet coverage:** 50 to 70 droplets per cm² must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 200 to 250 micron is recommended. Limit the production of fine droplets, less than 150 micron (high drift and evaporation potential), to a minimum.
- **Flying height:** Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking.
- Use suitable **atomizing equipment** that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomizers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the **wingtip vortices**.
- The difference in **temperature** between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C.
- Stop spraying if the **wind speed** exceeds 15 km per hour.
- Stop spraying under **turbulent, unstable and dry conditions** during the heat of the day.
- Spraying under **temperature inversion conditions** (spraying in or above the inversion layer) and/or **high humidity conditions** (relative humidity 80 % and above) may lead to the following:
 - a) reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage),
 - b) damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the aerial spray operator knows exactly which fields to spray.

Obtain an assurance from the aerial spray operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

APPLICATION RATES

Crop / Disease	Dosage rate	Remarks
VEGETABLES AND ROW CROPS		
Tomatoes Early blight, Late blight & <i>Septoria</i> leaf spot	200 g / 100 ℓ water (20 g / 10 ℓ water)	Apply the first application shortly after transplant. Use 500 litres spray mixture per hectare (500 mℓ per 10 m ²). Increase the volume to approximately 3000 litres spray mixture per hectare (3 litres per 10 m ²) as the plants increase in size. Tomato seedlings: Can be used on seedlings, if necessary.
Potatoes Early blight & Late blight	Apply the first application when the plants are about 15 cm high, or when Blight infection is expected. Apply follow-up applications at 7 to 10 day intervals and/or after rain.	
	1 kg / 100 ℓ water	Low volume application: Apply 200 to 300 litres spray mixture per hectare.
	200 to 300 g / 100 ℓ water (20 to 30 g / 10 ℓ water)	High volume application: Apply up to 1000 litres spray mixture per hectare (1 litre per m ²).
	2 to 3 kg / ha	Aerial application: Apply in 30 litres of water per hectare.
Only Seed potatoes: <i>Fusarium</i> , Dry rot & Common scab	300 g / 100 ℓ water	Treat potato tubers (whole or cut) by dipping in the mixture and placing thereafter, in either, disease-free containers or in mass under cool, high humidity conditions. Change the dipping mixture frequently especially if the potatoes have a film of soil on it.

Crop / Disease	Dosage rate	Remarks
ORCHARD CROPS		
Apples and Pears Scab	Pre-blossom: Apply 3 pre-bloom applications in total. Apply the first application at green tip stage and the last just prior to blossom. Post blossom: Apply 4 to 6 applications in the post blossom stage. Apply the first application immediately after blossom. Apply the follow-up sprays at 7 to 14 day intervals.	
	150 g / 100 ℓ water (3 to 5.25 kg / ha)	High volume application: Suitable for the pre-blossom and post blossom applications. Apply 2000 to 3500 litres spray mixture per hectare. Use the lower recommended spray volume per hectare for the pre-blossom and for the first one or two post blossom sprays. Use the higher spray volume for the remaining applications.
	500 g / 100 ℓ water (2.5 to 4 kg / ha)	Low volume application: Suitable only for the post blossom applications. Apply 500 to 900 litres spray mixture per hectare. For the first one or two post blossom sprays, use the lower recommended spray volume per hectare and the higher spray volume for the remaining applications.
	Low Volume: 1.8 to 3.0 kg / ha	
Grapevines (Table & Wine) Downy mildew (<i>Plasmopara viticola</i>)	Pre-blossom: 200 g / 100 ℓ water (1 to 1.5 kg / ha)	High volume application: Apply 500 to 750 litres spray mixture per hectare. Commence with the first spray when young shoots are 10 cm in length. Follow-up sprays should be applied at 7 to 10 day intervals, depending on favourable weather conditions for the development of the disease.
	Blossom to 80 % Calyx fall: 200 g / 100 ℓ water (1.5 to 2 kg / ha)	Apply 750 to 1000 litres spray mixture per hectare. Apply sprays during blossom to 80 % calyx fall period, only if the blossoming period is longer than 10 days.
	Post blossom: 200 g / 100 ℓ water (2 to 3 kg / ha)	Apply 1000 to 1500 litres spray mixture per hectare. During the post-blossom period, if weather conditions are favourable for the development of the disease, apply a further 2 sprays at 7 to 14 day intervals.
Dead arm disease (<i>Phomopsis viticola</i>)	200 g / 100 ℓ water (1 to 1.5 kg / ha)	High volume application: Apply 500 to 700 litres spray mixture per hectare. Apply 3 sprays prior to blossom at 7 to 10 day intervals. Apply the first spray when the shoots are 0.5 to 1 cm in length. NOTE Apply sprays before overhead irrigation.

Crop / Disease	Dosage rate	Remarks
Citrus Black spot (<i>Guignardia citricarpa</i>) & Melanose	IMPORTANT Refer to “ USE RESTRICTIONS ” above.	
	200 g / 100 ℓ water	Normal rainfall during July to September: Apply 4 applications. Apply the first spray during the third week of October. Apply 3 follow-up sprays at 25 day intervals.
	<p style="text-align: center;">OR</p> <p>First two sprays: 200 g / 100 ℓ water</p> <p>Last two to three sprays: 150 g / 100 ℓ water</p> <p style="text-align: center;">PLUS</p> 600 mℓ light / medium mineral oil / 100 ℓ	<p style="text-align: center;">OR</p> Above normal rainfall in July to September: Apply 5 applications. Commence with the first spray after full petal drop. Apply the 4 follow-up sprays at 25-day intervals.
	<p style="text-align: center;">OR</p> 150 g / 100 ℓ water VILLA UNIZEB 750 WDG <p style="text-align: center;">PLUS</p> 10 g / 100 ℓ water Essence 500 WDG <p style="text-align: center;">OR</p> 10 g / 100 ℓ water Connect 500 WDG <p style="text-align: center;">OR</p> 20 mℓ / 100 ℓ water Fungaway® 250 SC <p style="text-align: center;">PLUS</p> 300 mℓ light to medium narrow range mineral oil / 100 ℓ water	<p style="text-align: center;">OR</p> <p>VILLA UNIZEB 750 WDG IN A PROGRAMME APPLICATION WITH STROBILURINES</p> Start the programme with a single application of VILLA UNIZEB 750 WDG (at 200 g per 100 litres water) at 100 % fruit set. Follow up with the first tank mix of VILLA UNIZEB 750 WDG plus Essence 500 WDG or Connect 500 WDG or Fungaway® 250 SC plus mineral oil 21 to 24 days later. Follow up with a second tank mix of VILLA UNIZEB 750 WDG plus Essence 500 WDG or Connect 500 WDG or Fungaway® 250 SC plus mineral oil 21 to 24 days later. Thereafter, apply VILLA UNIZEB 750 WDG solo (at 200 g per 100 litres water) 6 weeks later. Repeat the VILLA UNIZEB 750 WDG solo application (at 200 g per 100 litres water) after 21 to 24 days, if conditions favour the development of late infections. Refer to the Essence 500 WDG or Connect 500 WDG or Fungaway® 250 SC labels for USE RESTRICTIONS and DIRECTIONS FOR USE . Lemons: Before commencement of the application programme, remove all remaining fruit.
Citrus rust mite	75 g / 100 ℓ water	Apply in spring.

Crop / Disease	Dosage rate	Remarks
Citrus (continue) Citrus silver mite	200 g / 100 ℓ water	An application can be sprayed as soon as the first Mites are noticed. In cases where the history of the trees and/or orchard shows a problem with Mites, the spray can be applied at petal fall. Ensure thorough wetting of the leaves and fruit. Citrus silver mite can cause russetting of lemons and grapefruit, during the 5 th to 7 th week period after petal fall. Lemons: Fruitlets resulting from summer blossoms are most susceptible to infestation.
Brown rot	200 g / 100 ℓ water	Spray the stem, soil and all the fruit up to 1 metre above the soil surface, 3 weeks before harvest.
Necrostoma	200 g / 100 ℓ water	Apply during early December and repeat the application in early January. Apply as a full cover spray. When infection pressure is high, disease symptoms will be suppressed.

The following products mentioned in this label can be replaced with the following equivalent products:

- **ESSENCE 500 WDG** (L 8956) = **MONARCH 500 WDG** (L 8955) = **STROVINE 500 WDG** (L 8953) (**Azoxystrobin**) and
- **CONNECT 500 WDG** (L 9324) = **UNITE 500 WDG** (L 9325) = **FOXY 500 WDG** (L 9512) (**Trifloxystrobin**).

MONARCH 500 WDG and/en **UNITE 500 WDG** are registered products of / is geregistreerde produkte van
Universal Crop Protection (Pty) Ltd.

FUNGAWAY® 250 SC, ESSENCE 500 WDG and/en **CONNECT 500 WDG** are registered products of / is geregistreerde produkte van
Villa Crop Protection (Pty) Ltd.

STROVINE 500 WDG and/en **FOXY 500 WDG** are registered products of / is geregistreerde produkte van
Cropasure (Pty) Ltd.