

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Fungicide



VILLA UNIZEB 800 WP

Reg. No. L 8056 Act/Wet No. 36 of/van 1947
N-AR 1091

2:31/10/2016-March2017

A wettable powder fungicide/acaricide for the prevention and control of various fungal diseases and mites on crops listed.

'n Benatbare poeier swamdoder/mytdoder vir die voorkoming en beheer van verskeie swamsiektes en myte op gewasse soos hieronder aangedui.

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

mancozeb (dithiocarbamate) **800 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



DIRECTIONS FOR USE ENCLOSED

Batch number: REFER TO DETAILS PRINTED ON CONTAINER/BAG
Lotnummer:

GEBRUIKSAANWYSYNGS INGESLUIT

Date formulated: VERWYS NA BESONDERHEDE
Formuleringsdatum: GEDRUK OP HOUER/SAK

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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 withholding periods between the last application and harvest and/or feeding of the crops concerned:	
Beans, Cruciferae, Cucurbits, Peas, Potatoes & Tomatoes	3 days
Groundnut hay (fodder)	21 days
All other edible crops	14 days
Table grapes	4 to 6 weeks
Mangoes	60 days

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 THE PRODUCT IS USED.

- Do not allow **VILLA UNIZEB 800 WP** to be exposed to damp and then warm conditions. Flammable vapours are generated under these conditions and **VILLA UNIZEB 800 WP** 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 powder or spray mist.
- Avoid contact with the skin, eyes and clothes.
- Wear face shield and rubber gloves when mixing product.
- Wash thoroughly with soap and water after application and accidental contact.
- 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 applicator after use and dispose of wash water where it will not contaminate food, grazing, 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 thereafter and bury it. Do not re-use it for any other purpose. **Do not burn the empty container.**
- Prevent contamination of food, feed, drinking water and eating utensils.
- Do not eat, drink or smoke whilst applying or mixing or before washing hands and face or change of clothing.

RESISTANCE WARNING

VILLA UNIZEB 800 WP is a group code M3 fungicide. Any fungus population may contain individuals naturally resistant to **VILLA UNIZEB 800 WP** and any 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 800 WP** 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 in fungicide group code M, 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

- Do not apply on table grapes when fruits have reached pea-size (4 to 6 weeks prior to harvest) as this may cause tarnishing.
- **Do not use on tobacco seedlings.**

DIRECTIONS FOR USE: Use only as directed.

Compatibility:

VILLA UNIZEB 800 WP is compatible with **Villa 51** and most fungicides and insecticides. **Do not use** with alkaline products, e.g. lime sulphur and Bordeaux mixtures.

Citrus: **Do not use VILLA UNIZEB 800 WP** together with calcium arsenate or urea on citrus.

Mixing instructions:

- Mix the recommended quantity of **VILLA UNIZEB 800 WP** 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 800 WP**, ensure thorough mixing of **VILLA UNIZEB 800 WP** in the spray tank, before the emulsifiable concentrate is added to the spray tank. Maintain thorough agitation of the mixture before and during spraying.

Application instructions:

Do not use overhead irrigation just prior to application of **VILLA UNIZEB 800 WP**.

Apples and Pears: Low volume (LV) application can be performed with **VILLA UNIZEB 800 WP**. Refer to table below for instructions. Follow these instructions carefully.

Aerial application:

Aerial application of **VILLA UNIZEB 800 WP** 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 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 aurally 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 meters above the target. Do not spray when aircraft is diving, climbing or when banking.
- Use suitable **atomising 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 atomisers 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		
Beans Rust & Anthracnose	1 to 4 kg / ha OR 40 g / 10 ℓ water	Apply the first application as the first signs of the disease are noticed. Repeat the applications at 7 to 10 day intervals. For the control of Anthracnose, apply the first application when the first flowers appear. Plant density and size determine the dosage rate. Ensure thorough wetting with sufficient volume of water. Aerial application: Apply in 30 litres water per hectare.
Cruciferae Downy mildew	1 to 4 kg / ha OR 40 g / 10 ℓ water	Apply the first application when plants are in the 4 to 6 leaf stage or when infestation is expected. Repeat the applications at 7 to 10 day intervals. Plant density and size determine the dosage rate. Ensure thorough wetting. The addition of a wetter/spreader to the spray mixture is recommended. Seedbeds: Apply sprays with 3 to 5 day intervals.
Cucurbits Anthracnose & Downy mildew	200 g / 100 ℓ water OR 20 g / 10 ℓ water	Apply the first application when the first signs of the disease are expected. Ensure thorough wetting of especially the lower leaf surfaces. Apply 1000 to 1500 litres spray mixture per hectare.
Groundnuts <i>Cercospora</i> & <i>Phyllosticta</i> leaf spots	Apply the first application when the first signs of the disease are noticed at the base of the plants. Apply 5 sprays in total at 14 day intervals. Dryland: 400 g / 100 ℓ water Irrigated lands: 300 g / 100 ℓ water	Apply in 400 to 500 litres of spray mixture per hectare. Apply in 1000 litres of spray mixture per hectare.
Onions Downy mildew	1 to 4 kg / ha OR 40 g / 10 ℓ water	Apply the first application when the plants are in the 4 to 6 leaf stage or when infestation is expected. Repeat the applications at 7 to 10 day intervals. Plant density and size determine the dosage rate. Ensure thorough wetting with sufficient volume of water. The addition of a wetter/spreader to the spray mixture is recommended.

Crop / Disease	Dosage rate	Remarks
Peas Downy mildew	1 to 4 kg / ha OR 40 g / 10 ℓ water	Apply the first application when the first signs of the disease are noticed. Repeat the applications at 7 to 10 day intervals. Plant density and size determine the dosage rate. Ensure thorough wetting with sufficient volume of water. <u>Aerial application:</u> Apply in 30 litres water per hectare.
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	<u>Low volume application:</u> Apply 200 to 300 litres spray mixture per hectare.
	200 to 300 g / 100 ℓ water OR	<u>High volume application:</u> Apply up to 1000 litres spray mixture per hectare. OR
	20 to 30 g / 10 ℓ water	Apply as a full cover spray: 1 litre spray mixture per 10 m ² .
	2 to 3 kg / ha	<u>Aerial application:</u> 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, either in 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.
Tomatoes Early blight, Late blight & <i>Septoria</i> leaf spot	200 g / 100 ℓ water OR 20 g / 10 ℓ water	Apply the first application shortly after transplant. Use 500 litres spray mixture per hectare. Increase the volume to approximately 3000 litres spray mixture per hectare as the plants increase in size. OR Use 500 mℓ spray mixture per 10 m ² . Increase the volume to approximately 3 litres spray mixture per 10 m ² as the plants increase in size. <u>Tomato seedlings:</u> Can be used on seedlings, if necessary.

<i>Crop / Disease</i>	<i>Dosage rate</i>	<i>Remarks</i>
ORCHARD CROPS		
Apples and Pears Scab	Pre-blossom: Apply 3 pre-bloom applications in total. Apply the first application with green tip stage and the last just prior to blossom.	
	Post blossom: Apply in total 4 to 6 applications in the post blossom stage. Apply the first application immediately after blossom. Apply the follow-up sprays with 7 to 14 day intervals.	
	150 g / 100 ℓ water (3 to 5.25 kg / ha) OR 15 g / 10 ℓ water	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 for only 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.	
Bananas Sigatoka Disease	2.5 kg PLUS 4 to 5 ℓ light / medium mineral oil / 100 ℓ water	Low volume application: Apply the first spray towards the end of November. Repeat the application at 26-day intervals, until after the rainy season.
Apricots and Peaches Freckle	High Volume: 150 g / 100 ℓ water (2.25 to 3.75 kg / ha) OR 15 g / 10 ℓ water	Winter Rainfall Region: Apply the first application at 75 to 100 % petal drop. Repeat the application 14 days later, if necessary. Applications on late cultivars can be repeated every 4 weeks, when wet conditions prevail. Summer Rainfall Region: Apply the first application 3 weeks after petal drop. Repeat the spray 14 days later, if necessary. Applications on late cultivars can be repeated every 4 weeks, when wet conditions prevail.
	Low Volume: 1.8 to 3.0 kg / ha	NOTE Maximum of 6 VILLA UNIZEB 800 WP applications is permitted, during the period that fruit is on the trees.

Crop / Disease	Dosage rate	Remarks
Apricots, Peaches and Plums Rust	High Volume: 150 g / 100 ℓ water (2.25 to 4.5 kg / ha) OR 15 g / 10 ℓ water	High volume as well as low volume applications. <u>Winter Rainfall Region:</u> Apply the first application early November. Apply follow-up sprays at 10 to 14 day intervals. <u>Summer Rainfall Region:</u> Apply the first application middle February. Apply follow-up sprays at 10 to 14 day intervals, as necessary.
	Low Volume: 1.8 to 3.6 kg / ha in a quarter or an eighth of the high volume spray mixture volume	
Gum spot	High Volume: 150 g / 100 ℓ water (1.8 to 3.75 kg / ha) OR 15 g / 10 ℓ water	Apricots & Peaches: <ul style="list-style-type: none"> • Apply a maximum of 5 applications. • Apply two applications during autumn: the first just after harvest and the second at 75 % leaf drop. • Apply a copper spray at bud movement in spring. • Apply the third VILLA UNIZEB 800 WP application at 80 % petal fall. • If necessary, apply a further 2 applications at 14 day intervals. Plums: Apply 2 applications. Apply the first spray in mid December and a second application, 10 days later.
	Low Volume: 1.25 to 3.0 kg / ha	
Grapevines Downy mildew (<i>Plasmopara viticola</i>)	Pre-blossom: 200 g / 100 ℓ water (1 to 1.5 kg / ha)	<u>High volume application:</u> Apply 500 to 750 litres spray mixture per hectare. Commence with the first spray when young shoots are 10 cm of 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 14 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)	<u>High volume application:</u> 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.
Application of VILLA UNIZEB 800 WP in Grapevines home gardens or smaller areas:		
<u>Downy mildew (<i>Plasmopara viticola</i>):</u> Use a dosage rate of 20 g VILLA UNIZEB 800 WP in 10 ℓ water. Apply as indicated at the time periods indicated above using the following spray mixture volumes rates:		
<ul style="list-style-type: none"> • Pre-blossom = 500 to 750 ml per 10 m² , • Blossom to 80 % Calyx fall = 750 ml to 1.0 litre mixture per 10 m² , • Post blossom = 1 to 1.5 litres spray mixture per hectare 10 m². 		
<u>Dead arm disease (<i>Phomopsis viticola</i>):</u> Apply as indicated above in 500 to 750 ml per 10 m ² .		

Crop / Disease	Dosage rate	Remarks
Citrus Black Spot and Melanose	200 g / 100 ℓ water OR 20 g / 10 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.
	OR First two sprays: 200 g / 100 ℓ water OR 20 g / 10 ℓ water Last two to three sprays: 150 g PLUS 600 ml light / medium mineral oil / 100 ℓ OR 15 g / 10 ℓ water PLUS 2 ml / 10 ℓ water Villa 51	
Citrus Rust mite	75 g / 100 ℓ water	Apply in spring.
Citrus silver mite	200 g / 100 ℓ water OR 20 g / 10 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 to 7 week period after petal fall. Lemons: Fruitlets resulting from summer blossoms are most susceptible to infestation.
Brown rot		Spray the stem, soil and all the fruit up to 1 metre above the soil surface, 3 weeks before harvest.
Necrostoma		Apply during the 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.
Guavas Lump disease & Blossom-end rot	200 g / 100 ℓ water OR 20 g / 10 ℓ water	Apply as a full cover spray. For lump disease, commence with applications in the early stages and repeat at 30-day intervals until the fruit begin to swell. For blossom-end rot, apply 14 days prior to harvest, when very wet conditions prevail.
Mangoes Anthracnose	200 g / 100 ℓ water OR 20 g / 10 ℓ water	Apply the first application when the panicles appear but before flowers open. Apply a second spray at fruit set and follow up as necessary at 14 to 21 day intervals.
Olives Anthracnose	200 g / 100 ℓ water OR 20 g / 10 ℓ water	Apply 3 to 4 times. Apply the first application in autumn before the fruit change colour. Repeat the application 2 to 3 times at 26-day intervals.

Crop / Disease	Dosage rate	Remarks
Papaya Black speckle	2 kg / ha OR 20 g / 10 ℓ water	Apply the first application at flowering stage. Repeat application at 28-day intervals. In cases of high disease pressure, shorten the spray interval to 14 days. Apply in 25 to 40 litres water per hectare for low volume applications and add light narrow range mineral oil at 16 litres per 100 litres spray mixture.
Quinces Black spot	125 g / 100 ℓ water OR 12.5 g / 10 ℓ water	Apply the first application at green-tip stage. Repeat 6 to 10 days later. Apply follow-up sprays at 10 to 14 day intervals, commencing at 75 % petal fall.
OTHER		
Young-berries and Boysen-berries Anthracnose & Downy mildew	1 to 4 kg / ha OR 40 g / 10 ℓ water	Apply in sufficient water to ensure thorough wetting of the plants. Dosage rate depends on the plant density and size. Downy mildew: Apply the first spray when the first symptoms of disease are noticed. Apply follow-up sprays at 10 to 14 day intervals. Anthracnose: Apply spray when the first flowers appear. Repeat every 7 to 10 days.
Ornamentals Downy mildew, Anthracnose & Rusts	150 to 200 g / 100 ℓ water PLUS suitable spreader and sticker OR (7.5 to 10 g per 5 ℓ water) OR 15 to 20 g / 10 ℓ water PLUS 5 ml Villa 51	Use sufficient water to ensure thorough wetting of the plants. The degree of infection determines the dosage rate. Apply the first spray as soon as the first symptoms are noticed. Apply follow-up sprays at 7 to 10 day intervals if necessary.

The following product mentioned in this label may be replaced with an equivalent product:

- **VILLA 51** (L 8050 / W 130454 / N-AR 1090) = **WEN 51** (L 8315).

VILLA 51 and/en **WEN 51** are registered products of / is geregistreerde produkte van
VILLA CROP PROTECTION (PTY) LTD.