

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Fungicide



BENOMYL 500 WP

Reg. No. L 6909 Act/Wet No. 36 of/van 1947
N-AR 1089 / W 130951

2: 16/10/2017 - Jan2019

A wettable powder fungicide with systemic action, for the control of diseases on crops as listed.

'n Benatbare poeier swamdoder met sistemiese aksie, vir die beheer van siektes op gewasse soos aangedui.

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL
benomyl (benzimidazole) **500 g/kg** benomil (bensimidasool)

FRAC FUNGICIDE GROUP CODE **1** 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



GEBRUIKSAANWYSYNGS INGESLUIT

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

Date formulated:

Formuleringsdatum:

DIRECTIONS FOR USE ENCLOSED

REFER TO DETAILS PRINTED
ON CONTAINER/BAG

Batch number:

Lotnummer:

BENOMYL 500 WP

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 FRAC FUNGICIDE GROUP CODE / FRAC SWAMDODER GROEPKODE: 1

ACTIVE INGREDIENT / AKTIEWE BESTANDEEL:

benomyl (benzimidazole) / benomyl (benzimidazole).....500 g/kg

Registration holder / Registrasiehouer:

VILLA CROP PROTECTION (PTY) LTD.

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

P.O. Box / Posbus 10413, ASTON MANOR, 1630

Tel. (011) 396 2233

CAUTION / VERSIGTIG**WARNINGS****Withholding period:**

Allow the following number of days between the last application and harvest or grazing of the following crops:	
Apples, Pears, Citrus & Wine grapes	14 days
Avocados	120 days
Cucurbits, Green peppers & Tomatoes	3 days
Peaches	7 days
Peas	21 days
Table Grapes (pea size)	4 to 6 weeks
Groundnuts	42 days

IN THE CASE OF CROPS INTENDED FOR EXPORT, CONFIRM WITHHOLDING PERIODS WITH THE RELEVANT EXPORT ORGANISATION. IF THIS PRODUCT IS USED ACCORDING TO THE RECOMMENDATIONS ON THIS LABEL, LOCAL MRL VALUES WILL NOT BE EXCEEDED. HOWEVER, VILLA CROP PROTECTION (PTY) LTD. CANNOT ACCEPT RESPONSIBILITY FOR EXPORTED CROPS EXCEEDING THE IMPORT TOLERANCES OF OTHER COUNTRIES.

- Do not use **Benomyl** treated seed as food or feed.
- Do not use **Benomyl** on Golden Delicious apples and Kieffer pears during the bloom and post bloom stages as it may result in russetting.
- **BENOMYL MAY NOT BE USED AS A POST HARVEST TREATMENT FOR APPLES AND PEARS, WHICH ARE DESTINED FOR EXPORT.**
- Harmful if swallowed or inhaled.
- May irritate eyes, nose, throat and skin.
- May cause sensitization by skin contact.
- Do not handle until all safety precautions have been read and understood. May damage fertility or the unborn child.
- Do not allow **BENOMYL 500 WP** to become wet or damp during storage, because chemical changes, which will reduce the effectiveness of **BENOMYL 500 WP** as a fungicide, will take place.
- Store the product inside the original container and always keep the original container tightly closed.
- Store in a cool, dry, well-ventilated place, away from food, seed and feeds.
- Toxic to fish.
- 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 disease 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 event of any uncertainty.

PRECAUTIONS

- Avoid inhalation of the powder or spray mist.
- Avoid contact with the skin and eyes.
- Wear a face shield and rubber gloves when preparing the spray mixture and during application.
- Wash contaminated clothes after use.
- 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 15 minutes. If irritation persists obtain medical attention.
- Do not eat, drink or smoke whilst applying or mixing or before washing hands and face or change of clothing.
- 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 and destroy the empty container/bag thereafter and burying it.
- **Do not** re-use the empty container/bag for any other purpose.
- **Do not** burn the empty container/bag.
- Prevent contamination of food, feeds, drinking water and eating utensils.

RESISTANCE WARNING

BENOMYL 500 WP is a group code 1 fungicide. Any fungus population may contain individuals naturally resistant to **BENOMYL 500 WP** and other group code 1 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **BENOMYL 500 WP** or any other group code 1 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.

NOTE

If field resistance to **Benzimidazole** has already occurred, it is recommended not to use **BENOMYL 500 WP**.

DIRECTIONS FOR USE: Use only as directed.**Compatibility:**

- **BENOMYL 500 WP** is compatible with **Copper oxychloride WP**, **Villa Unizeb 800 WP** and **Fungaway® 250 SC**.

Mixing instructions:

- Fill the spray tank a quarter to half with clean water and start agitating (use mechanical or hydraulic agitation).
- Premix the required amount of **BENOMYL 500 WP** with a small quantity of water to a slurry.
- Add the slurry to the spray tank while agitating.
- Fill the spray tank with water to the required volume.
- Ensure thorough mixing of the mixture before and while applying.

Application instructions:

All spray applications must be performed with suitable equipment that is in good working order and correctly calibrated to give the desired coverage for that particular method of application.

APPLICATION RATES

Crop / Disease	Dosage Rate (High Volume Spraying)	Remarks
Avocados Fruit spot	50 g / 100 ℓ water PLUS 0.5 ℓ narrow range distillation oil	Apply the first spray at the end of November and the second follow-up spray towards the end of January. Apply as a full cover spray.
Apples and Pears Powdery mildew & Scab	35 g OR 50 g / 100 ℓ water (0.53 to 1.75 kg / ha)	Apply the first spray at greentip. Apply follow-up sprays at intervals of 7 to 10 days. For the control of Powdery mildew on very susceptible cultivars and under conditions, which favour Mildew development, increase dosage to 50 g per 100 litres water. Apply 1500 to 3500 litres spray mixture per hectare, depending on the growth stage of the crop. Do not apply more than 4 sprays per season. Refer “RESISTANCE WARNING” .
Over wintering stage of Scab fungus	100 g / 100 ℓ water	Spray trees once in autumn after harvest, but before leaf drop.
Apples Post-harvest decay (<i>Penicillium</i> spp.)	200 g / 100 ℓ water	WARNING Do not use on fruit, which is destined for export. Prepare a suspension to dip fruit in or to spray the suspension onto harvested fruit. Ensure thorough agitation of suspension while applying.
Apricots, Peaches and Plums Blossom blight	25 g / 100 ℓ water (0.3 to 0.5 kg / ha)	Apply the first spray when first blossoms have reached the 5 % balloon stage. Apply follow-up sprays every 4 to 7 days until after flowering. Apply 1200 to 2000 litres spray mixture per hectare, depending on the growth stage of the crop. Do not apply more than 3 sprays per season. Refer “RESISTANCE WARNING” .
Bananas Post-harvest decay (Collar rot)	50 g / 100 ℓ water	Prepare a suspension and ensure thorough agitation of suspension during treatment. Cut bunches and dip the fruit for 5 seconds in the suspension.
Citrus Black spot	IMPORTANT As it is expected from BENOMYL 500 WP to act as an eradicant (where application is performed after infection), it is imperative that trees be covered completely during the spray operation. The addition of oil to the spray mixture is essential, to improve the eradicant properties of BENOMYL 500 WP . The addition of Villa Unizeb 800 WP is to slow down the development of resistance of the Black spot fungus to BENOMYL 500 WP . When applying the BENOMYL 500 WP/Villa Unizeb 800 WP mixture to citrus, do not mix any other remedy except the oil prescribed.	
	Spray only in orchards where Benzimidazole resistance is absent, and then only in combination with or in alteration with Villa Unizeb 800 WP . Recommendation is that all BENOMYL 500 WP applications be preceded by an application of Villa Unizeb 800 WP at 200 g per 100 litres water during the last week in October up to 10 November.	
All cultivars	25 g / 100 ℓ water PLUS 10 ml / 100 ℓ water Fungaway® 250 SC PLUS 250 ml / 100 ℓ water Citrole oil	Apply as a medium cover spray around middle November and repeat eight (8) weeks later.

Crop / Disease	Dosage Rate (High Volume Spraying)	Remarks
Citrus (continue) Early cultivars and Valencias Younger than 20 years	25 g / 100 ℓ water PLUS 200 g Villa Unizeb 800 WP PLUS 0.5 ℓ narrow range distillation oil	Apply a single full cover spray between 1 and 20 December. Alternatively, if problems are encountered in obtaining complete coverage, two sprays may be applied during the second half of November and the first week of January respectively.
Late cultivars Vigorously growing trees younger than 20 years	50 g / 100 ℓ water PLUS 200 g Villa Unizeb 800 WP PLUS 0.5 ℓ narrow range distillation oil	Apply a single full cover spray between 1 and 20 December.
Old or Neglected trees Trees older than 20 years or with a history of susceptibility	75 g / 100 ℓ water PLUS 200 g Villa Unizeb 800 WP PLUS 0.5 ℓ narrow range distillation oil	Apply a single full cover spray between 1 and 20 December.
	OR 50 g / 100 ℓ water PLUS 200 g Villa Unizeb 800 WP PLUS 0.5 ℓ narrow range distillation oil. Follow-up with 200 g Villa Unizeb 800 WP	OR Apply a single full cover spray during the second half of November. Follow the application up with a Villa Unizeb 800 WP application during the first week of January. Alternatively, if problems are encountered in obtaining complete coverage, apply two sprays at 25 g plus 200 g Villa Unizeb 800 WP plus 0.5 litre oil per 100 litres water during the second half of November and the first week of January respectively.
Citrus Fruit for processing Early cultivars & Valencias Younger than 20 years	NOTE The purpose of Black spot control on these fruit, is only to prevent fruit drop.	
	25 g / 100 ℓ water PLUS 200 g Villa Unizeb 800 WP PLUS 0.5 ℓ narrow range distillation oil	Apply a single full cover spray during beginning of December.
Valencias Older than 20 years	50 g / 100 ℓ water PLUS 200 g Villa Unizeb 800 WP PLUS 0.5 ℓ narrow range distillation oil	Apply a single full cover spray during beginning of December.
Citrus Post-harvest decay (<i>Penicillium</i> , <i>Diplodia</i> , <i>Alternaria</i> & <i>Fusarium</i> spp.)	75 g / 25 ℓ water (1500 ppm) 125 g / 25 ℓ water (2500 ppm)	Brush on in water or wax. WARNING Do not use on fruit, which is destined for export. Prepare a suspension to treat the fruit with. Ensure thorough agitation of suspension during treatment.
Cucurbits Powdery mildew	50 g / 100 ℓ water	Apply BENOMYL 500 WP in a spray programme. Apply the first spray as soon as the first Mildew spots are noticed on the undersides of the older leaves. Apply follow-up sprays at 10 day intervals. Apply 500 to 1000 litres spray mixture per hectare, to ensure thorough wetting. Do not apply more than three (3) sprays per season. Refer " RESISTANCE WARNING ".

Crop / Disease	Dosage Rate (High Volume Spraying)	Remarks
Green peppers Powdery mildew	50 g / 100 ℓ water	Preventive programme: Apply the first spray 4 weeks after emergence. Apply follow-up sprays weekly. Apply at 500 to 1500 litres spray mixture per hectare, depending on plant size. Ensure thorough coverage of especially the lower leaves. Any delay in the commencement of the spray programme may lead to poor disease control, since this disease causes rapid defoliation under favourable disease conditions. Do not apply more than 4 sprays per season. Refer “ RESISTANCE WARNING ”.
Groundnuts <i>Cercospera</i> & <i>Phoma</i> leaf blotch	30 g / 100 ℓ water	Spray programme: Apply the first spray at the first sign of the disease on the older leaves, or not later than the first week of January in the case of groundnuts grown under dryland conditions or flood irrigation. For groundnuts under overhead irrigation, spraying must commence not later than middle December. Apply follow-up sprays at 10 to 14 day intervals. For groundnuts under dryland conditions, 4 to 5 sprays are recommended and for under overhead irrigation 6 to 7 sprays. If groundnut foliage is needed for hay, maintain sprays until 14 days prior to the harvest date.
Gladioli <i>Fusarium</i> corm rot	200 g / 100 ℓ water	Prepare a suspension and ensure thorough agitation of the suspension during treatment. Dip the corms for one minute in suspension.
Mangoes Powdery mildew	15 g / 100 ℓ water PLUS 100 ml Triforine	Apply the first spray at the first sign of the disease, usually at 50 % flowering stage. Apply a follow-up spray 3 to 4 weeks later at 100 % flowering. A third spray may be necessary where uneven flowering prevails or where a late infection occurs. Ensure thorough coverage of the blossoms.
Post-harvest decay, Anthracnose & Brown rot	25 g / 100 ℓ water PLUS 300 g Copper Oxychloride WP	Programme spraying: Follow a spray programme for the reduction of post-harvest decay. Apply the first spray when the fruits are marble size. Apply follow-up sprays at 3-week intervals starting, up to 14 days prior to harvest. Apply as a full cover spray, to ensure thorough coverage of the fruit.
	200 g / 100 ℓ water	Warm bath treatment: WARNING Do not use on fruit, which is destined for export. Prepare a warm suspension and ensure thorough agitation of suspension during treatment. For enhanced control of Post-harvest decay, fruit can after harvest, be dipped for 5 minutes in a heated suspension (55 to 57 °C) of BENOMYL 500 WP , prior to cold storage.
Peas <i>Sclerotinia</i> rot (<i>Sclerotinia sclerotiorum</i>)	1 kg / ha	Apply the first spray at 1 % flowering. Apply a follow-up spray 10 to 14 days later. Apply 500 to 1000 litres spray mixture per hectare, to ensure thorough wetting of the plants. BENOMYL 500 WP may also be applied through a centre pivot irrigation system, in 5 to 7 mm water per hectare.

Crop / Disease	Dosage Rate (High Volume Spraying)	Remarks
<u>Peaches</u> Brown rot - <i>Monilinia</i> not (<i>Rhizopus</i> rot)	35 g / 100 ℓ water (0.88 to 1.23 kg / ha)	Apply two sprays at a 7 day interval between the two sprays. Apply the second and last spray 7 days prior to expected harvest. Ensure thorough coverage of all fruit while applying.
Freckle	35 g / 100 ℓ water (0.53 to 0.9 kg / ha)	Apply the first application at 100 % petal fall. Apply a second spray 3 weeks later. Apply 1500 to 3500 litres spray mixture per hectare, depending on the growth stage of the crop.
<u>Pears</u> Blossom end rot (<i>Botrytis</i> spp.)	50 g / 100 ℓ water (0.75 to 1.75 kg / ha)	Apply the first spray at full bloom. Apply a second spray 7 days later. A third spray 7 days after the second may be necessary, if conditions favour infection. Apply 1500 to 3500 litres spray mixture per hectare, depending on the growth stage of the crop.
<u>Roses</u> Black spot & Powdery mildew	100 g / 100 ℓ water (10 g / 10 ℓ water)	Apply preventive sprays at intervals of 7 days.
<u>Sugarcane</u> Pineapple disease of seed pieces	50 g / 100 ℓ water	Prepare a suspension in a cold or warm (50 °C) bath. Ensure thorough agitation of the suspension during treatment, to keep the material in suspension. Dip seed pieces in the suspension and ensure thorough wetting. Maintain volume by adding the same original concentration.
<u>Sunflowers</u> <i>Sclerotinia</i> rot (<i>Sclerotinia</i> <i>sclerotiorum</i>)	200 g per 100 kg seed	Seed treatment: Apply 1 litre clean water to the recommended quantity of seed. Apply the recommended quantity of BENOMYL 500 WP to the moistened seed. The volume of water may be slightly amended, to ensure adequate wetting of the seed. The treatment will only control seed borne <i>Sclerotinia</i> . Mix the seed and product thoroughly, to ensure thorough coverage of seed.
<u>Tobacco seedlings</u> Black root rot	15 g per 20 ℓ water per standard seedbed of 8.4 m ²	Prepare a suspension and ensure thorough agitation of the suspension. Apply the suspension evenly over seedbed area with a watering can. Directly hereafter, apply another 20 litres clean water over the same area, to soak the fungicide into the root zone. Apply a second and possibly a third follow-up treatment at 2 week intervals, until healthy new roots have developed.
<u>Table and Wine grapes</u> Powdery mildew	50 g / 100 ℓ water (0.13 to 0.75 kg / ha)	Apply the first spray when shoots are 25 cm long. Apply follow-up sprays every 10 to 14 days. Apply 250 to 1500 litres spray mixture per hectare, depending on the plant size. Ensure thorough wetting. Do not apply more than 4 sprays per season. Refer “ RESISTANCE WARNING ”.
<i>Botrytis</i> rot	50 g / 100 ℓ water (0.25 to 0.75 kg / ha)	Apply two sprays. Apply the first spray during full flower and the second at pea size. Apply at 500 to 1500 litres spray mixture per hectare, depending on the plant size. Ensure thorough wetting. In the case of table grapes, follow-up with a suitable dusting treatment. The BENOMYL 500 WP treatment will suppress <i>Botrytis</i> rot and it is therefore necessary to follow the Benomyl -treatment up with a registered and suitable dusting powder.

Crop / Disease	Dosage Rate (High Volume Spraying)	Remarks
Tomatoes <i>Botrytis</i> rot (<i>Botrytis cinerea</i>)	50 g / 100 ℓ water (0.25 to 0.75 kg / ha)	Programme spraying: Apply the first spray with the onset of the first signs of disease on leaves, stems or fruit. Apply follow-up sprays every 7 to 10 days, as long as conditions are favourable for disease development. Apply 500 to 1500 litres spray mixture per hectare, depending on plant size. Ensure good coverage of all above-ground parts. Do not apply more than 4 sprays per season. Refer “ RESISTANCE WARNING ”.
Powdery mildew (<i>Oidiopsis taurica</i>)	50 g / 100 ℓ water (0.25 to 0.75 kg / ha)	Programme spraying: Apply the first spray with the onset of the first signs of disease on the older leaves. Apply follow-up sprays every 7 to 10 days, as long as conditions are favourable for disease development. Apply 500 to 1500 litres spray mixture per hectare, depending on plant size. Ensure good coverage of all above-ground parts. Do not apply more than 4 sprays per season. Refer “ RESISTANCE WARNING ”.
Wheat Loose smut (<i>Ustilago</i>)	1.5 g per kg dry seed OR mix with 10 mℓ water for slurry treatment	Dry treatment: Mix the recommended quantity of BENOMYL 500 WP thoroughly with dry seed, until an even coverage has been obtained. Slurry treatment: Mix the recommended quantity of BENOMYL 500 WP and water thoroughly with the seed, until an even coverage has been obtained.

Consult all the listed labels for **USE RESTRICTIONS, WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS and DIRECTIONS FOR USE.**

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

- **COPPER OXYCHLORIDE WP** (L 5809) = **COPPER OXYCHLORIDE WP** (L 6231),
- **VILLA UNIZEB 800 WP** (L 8056 / N-AR 1091) = **COZEB 800 WP** (L 7098) = **NEWZEB 800 WP** (L 8167) (**Cozeb**) and
- **FUNGAWAY® 250 SC** (L 8590 / N-AR 1225) = **MYCOBLOCK 250 SC** (L 8591) = **STROBIN 250 SC** (L 8625) and

COPPER OXYCHLORIDE WP and/en **VILLA UNIZEB 800 WP** are registered products of / is geregistreerde produkte van **VILLA CROP PROTECTION (PTY) LTD.**

FUNGAWAY® 250 SC is a registered trademark of / is 'n geregistreerde handelsmerk van **VILLA CROP PROTECTION (PTY) LTD.**

COPPER OXYCHLORIDE WP, MYCOBLOCK 250 SC and/en **COZEB 800 WP** are registered products of / is geregistreerde produkte van **UNIVERSAL CROP PROTECTION (PTY) LTD.**

NEWZEB 800 WP and/en **STROBIN 250 SC** are registered products of / is geregistreerde produkte van **CROPASURE (PTY) LTD.**