

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Fungicide



UNITE 500 WDG

Reg. No. L 9325 Act/Wet No. 36 of/van 1947

1:15/8/2013 - June 2017

A water dispersible granular fungicide with mesostemic properties for the control of various diseases on crops as listed.

in Water disperseerbare korrelswamdoder met mesostemiese eienskappe vir die beheer van siektes op gewasse soos aangedui.

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

trifloxystrobin (strobilurin) **500 g/kg** trifloksistrobien (strobilurien)

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



villa

Registration holder / Registrasiehouer:

Universal Crop Protection (Pty) Ltd.

Co. Reg. No. / Mpy. Reg. Nr. 1983/008184/07

PO Box / Posbus 801, Kempton Park, 1620

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:

UNITE 500 WDG

Reg. No. L 9325 Act/Wet No. 36 of/van 1947

FRAC FUNGICIDE GROUP CODE / FRAC SWAMDODER GROEPKODE: 11

ACTIVE INGREDIENT/ AKTIEWE BESTANDDEEL:

trifloxystrobin (strobilurin)

.....500 g/kg

trifloksistrobien (strobilurien)

Registration holder / Registrasiehouer:

UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1983/008184/07 Mpy. Reg. Nr.

PO Box / Posbus 801,

KEMPTON PARK, 1620, Tel. (011) 396 2233

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

Minimum time between the last application and harvest and/or grazing:	
Apples	7 days
Pears	14 days
Citrus	76 days

ABOVE-MENTIONED WITHHOLDING PERIODS REFER TO COMPLIANCE WITH LOCAL MAXIMUM RESIDUE LIMITS (MRL'S). HOWEVER, IT IS IMPORTANT TO NOTE THAT IMPORT TOLERANCES OF OTHER COUNTRIES MIGHT POSSIBLY BE EXCEEDED. IF THE TREATED CROP WILL BE EXPORTED, FIRST CONSULT THE RELEVANT IMPORTER OR EXPORTING BODY REGARDING THE USE OF THIS PRODUCT, MRL'S AND RECOMMENDED WITHHOLDING PERIODS.

- Handle with care.
- Poisonous if swallowed, inhaled or absorbed through the skin.
- May cause sensitisation by skin contact.
- Very toxic to fish and other aquatic organisms.
- Store in a cool, dry place away from food, feeds, fertilizers and other agricultural remedies. Avoid temperatures below 10 °C and above 35 °C.
- Keep out of reach of children, animals and uninformed persons.
- 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 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 to the remedy concerned, as well as by the method, time and accuracy of application. The registration holder further 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

- Do not inhale formulation dust or spray mist.
- Avoid contact of skin, eyes and clothing with product or spray mist.
- Wear an overall, rubber gloves, rubber boots and a face shield when handling the concentrate.
- Do not enter treated areas until the sprayed solution has dried.
- Wash contaminated clothing after use.
- Wash with soap and water after use or accidental skin contact.
- Do not eat, drink or smoke whilst mixing, applying the product or before washing hands and face or change of clothing.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Thoroughly clean spraying equipment directly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- **Product and container disposal:**

- Dispose of surplus product in an incinerator or on a landfill site approved for pesticides.
- Do not bury in, or spray onto, any area under agricultural use.
- Dispose of containers/bags/sachets made of plastic, cardboard or paper on a landfill site approved for pesticides or burn in a safe place where there is no risk of contamination by smoke and fumes.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- **Do not** re-use the empty container for any other purpose.

RESISTANCE WARNING

UNITE 500 WDG is a group code 11 fungicide. Any fungus population may contain individuals naturally resistant to **UNITE 500 WDG** and other group code 11 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly and exclusively in programs. These resistant fungi may not be controlled by **UNITE 500 WDG** or any other group code 11 fungicides.

To delay fungicide resistance:

- avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate 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.

Resistance management: FRAC GUIDELINES* for the control of Apple and Pear scab:

- Apply QoI fungicides preventively. Under conditions of high disease pressure, the spray interval must not exceed 7 to 10 days.
- Apply QoI fungicides as per manufacturer's instructions for the target disease (or complex), at the specific crop growth stage indicated according to tree size. It is critical to delay the build-up of resistant pathogen populations to obtain effective disease management
- QoI fungicides must be applied only in mixtures with other products that will contribute to the effective control of the target pathogens.
- Apply a maximum of 3 QoI containing fungicide sprays per crop. A maximum of 4 QoI fungicide applications may be used where 12 or more applications are made per crop.
- A maximum of 2 consecutive QoI fungicide sprays is preferred. Where efficacy was adversely affected, alternate the QoI containing fungicide with fungicides from a different mode of action group.

(* - Refer to the FRAC Web Site (www.frac.info/frac/index.htm) for the latest guidelines.)

USE RESTRICTIONS

- Apply according to Good Agricultural Practices, Integrated Pest Management (IPM) and anti-resistant management programmes.
- For effective disease control, apply at least 2 consecutive applications of **UNITE 500 WDG** in a preventive spray programme with unrelated fungicides.
- Apply a maximum of 3 strobilurin (QoI inhibitor) fungicide treatments per season per crop.
- **Citrus**
 - Do not apply (**Spirodiclofen**) **Diclofen 240 SC** within 30 days before or after the application of **UNITE 500 WDG**.
 - Do not apply **UNITE 500 WDG** on old neglected citrus trees as the conditions in such trees favour the development of fungicide resistance.

DIRECTIONS FOR USE: Use only as directed.

Compatibility:

- **UNITE 500 WDG** is compatible with **Newzeb 455 SC, Newzeb 750 WDG, Newzeb 480 SC, Cozeb 800 WP, Copper oxychloride 850 WP** and light to medium narrow range mineral oils.
- The compatibility of **UNITE 500 WDG** with other products may be influenced by the formulation of the other products involved as well as the quality of water. Since the formulation of other products may change without the knowledge of the registration holder and the quality of water may vary from farm to farm a physical compatibility test should always be carried out prior to application. When applying a mixture of **UNITE 500 WDG, Mancozeb** and **light to medium narrow range mineral oil** on citrus, **DO NOT** mix with any other pesticide.

Refer to the **Newzeb 455 SC, Newzeb 750 WDG, Newzeb 480 SC, Cozeb 800 WP, Copper oxychloride 850 WP** and respective **light to medium narrow range mineral oil** labels for directions regarding their use.

Mixing instructions:

- Half fill the spray or pre-mix tank with clean water and engage agitation.
- Do not pre-mix **UNITE 500 WDG** as a slurry.
- Remove the filter on the top of the tank. Add the required quantity of product directly into the tank and continue to agitate the mixture.
- In case of tank mixtures; wait until the **UNITE 500 WDG** has completely dispersed before addition of the other product(s).
- Continue agitating and fill the tank with water.
- Agitation must be continued throughout the mixing and spraying operation. Re-suspend the spray mixture if agitation was suspended for longer than 5 minutes.

Application instructions:**Ground application:**

UNITE 500 WDG may be applied using calibrated conventional spray equipment that is in good operational order, to ensure that the correct dosage rate is applied. Ensure uniform distribution of the spray mixture throughout the target area.

APPLICATION RATES**IMPORTANT NOTE**

Refer to “USE RESTRICTIONS” above.

<i>Crop / Disease</i>	<i>Dosage rate</i>	<i>Remarks</i>
<u>Apples and Pears</u> Scab (<i>Venturia</i> spp.)	10.0 g / 100 ℓ water	Refer to the FRAC guidelines in the resistance management clause. Apply UNITE 500 WDG strictly preventive as part of a programme application. Start with treatments at green tip stage and apply at weekly intervals.
<u>Apples</u> Powdery mildew (<i>Podosphaera leucotricha</i>)	10.0 g / 100 ℓ water	Although UNITE 500 WDG can be included during any time of the spray programme, it is recommended to position UNITE 500 WDG applications between 75% flowering and early fruit set, in order to achieve best results. In compliance with FRAC Guidelines, UNITE 500 WDG must be applied as a tank mixture with Cozeb 800 WP at the registered rate for the control of Apple and Pear scab.

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:

High volume rate:

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 **UNITE 500 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:

<i>Growth stage</i>	<i>% of the high volume water requirement / ha</i>
From greentip to ± 30 % blossom	60 %
From ± full blossom to ± middle November	80 %
From beginning December	100 %

Crop / Disease	Dosage rate	Remarks
Citrus (excluding lemons): Black spot (<i>Guignardia citricarpa</i>)	Apply UNITE 500 WDG as part of the following spray programme that starts and ends with solo treatments of Mancozeb (Cozeb 800 WP / Newzeb 480 SC / Newzeb 455 SC) . 200 g / 100 ℓ water Cozeb 800 WP OR 200 g / 100 ℓ water Newzeb 750 WDG OR 350 ml Newzeb 455 SC OR 330 ml Newzeb 480 SC	Refer to “ USE RESTRICTIONS ” above. Apply one Mancozeb application at fruit set (100 % petal drop).
	10 g / 100 ℓ water UNITE 500 WDG PLUS 300 ml light to medium narrow range mineral oil / 100 ℓ water PLUS 150 g / 100 ℓ water Cozeb 800 WP OR 150 g / 100 ℓ water Newzeb 750 WDG OR 260 ml / 100 ℓ water Newzeb 455 SC OR 250 ml Newzeb 480 SC	Apply UNITE 500 WDG 21 to 25 days after the first Mancozeb application as a preventive treatment. Ensure good coverage of all fruit with a medium to full cover spray. Apply a second UNITE 500 WDG application 6 weeks later.
	200 g / 100 ℓ water Cozeb 800 WP OR 200 g / 100 ℓ water Newzeb 750 WDG OR 350 ml / 100 ℓ water Newzeb 455 SC OR 330 ml / 100 ℓ water Newzeb 480 SC	Apply Mancozeb six (6) weeks after the second UNITE 500 WDG application. Repeat with a Mancozeb treatment 21 to 24 days later if an infection period occurs in February.

REMARKS

Copper oxychloride 850 WP application as an alternative to Mancozeb in a UNITE 500 WDG spray programme on citrus:

- As an alternative to **Mancozeb** (solo or in combination with **UNITE 500 WDG** and mineral oil), **Copper oxychloride 850 WP** can be included in the programme application.
- The **Copper oxychloride 850 WP** applications should be applied according to the registered rates (Refer to the necessary label recommendations).
- In order to avoid/reduce the occurrence of **Copper** rind stippling and any lesion accentuation on fruit, **Copper oxychloride 850 WP** treatments should be applied at least 60 days apart. Reduce the number of **Copper oxychloride 850 WP** applications to a maximum of 2 to 3 applications per season.

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

- **COZEB 800 WP** (L 7098) = **VILLA UNIZEB 800 WP** (L 8056) = **NEWZEB 800 WP** (L 8167) (**Mancozeb**),
- **NEWZEB 750 WDG** (L 8811) = **VILLA UNIZEB 750 WDG** (L 8812) = **COZEB 750 WDG** (L 8964) (**Mancozeb**),
- **NEWZEB 455 SC** (L 9175) = **MULTIZEB 455 SC** (L 9174) (**Mancozeb**),
- **NEWZEB 480 SC** (L 9178) = **UNIZEB 480 SC** (L 9179) (**Mancozeb**) and
- **COPPER OXYCHLORIDE 850 WP** (L 5809) = **COPPER OXYCHLORIDE 850 WP** (L 6231).
- **DICLOFEN 240 SC** (L 9497) = **SPIROFEN 240 SC** (L 9498).

COZEB 800 WP, NEWZEB 750 WDG, NEWZEB 455 SC, NEWZEB 480 SC, DICLOFEN 240 SC and/en **COPPER OXYCHLORIDE 850 WP** are registered products of / is geregistreerde produkte van **Universal Crop Protection (Pty) Ltd.**

VILLA UNIZEB 800 WP, VILLA UNIZEB 750 WDG, MULTIZEB 455 SC, UNIZEB 480 SC, SPIROFEN 240 SC and/en **COPPER OXYCHLORIDE 850 WP** are registered products of / is geregistreerde produkte van **Villa Crop Protection (Pty) Ltd.**

NEWZEB 800 WP and/en **COZEB 750 WDG** is registered products of / is geregistreerde produkte van **Cropasure (Pty) Ltd.**