

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Fungicide



# FUNGARREST

Reg. No. L 7693 Act/Wet No. 36 of/van 1947

1: 14/03/05-Jan2019

*A wettable powder preventive and curative fungicide for the control of diseases on crops as mentioned below.*

*'n Benatbare poeier beskermende en genesende swamdoder vir die beheer van siektes op gewasse soos onder aangedui.*

### ACTIVE INGREDIENTS / AKTIEWE BESTANDELE

cymoxanil (cyanoacetamide oxime) **60 g/kg** simoksanil (sianoasetamied oksiem)  
mancozeb (dithiocarbamate) **700 g/kg** mankoseb (ditiokarbamaat)

FRAC FUNGICIDE GROUP CODE **27** FRAC SWAMDODER GROEPKODE

FRAC FUNGICIDE GROUP CODE **M3** FRAC SWAMDODER GROEPKODE

kg

**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](http://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:

Lotnummer:

**FUNGARREST**

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FRAC FUNGICIDE GROUP CODE / FRAC SWAMDODER GROEPKODE: 27 / M3

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Registration holder / Registrasiehouer:

**UNIVERSAL CROP PROTECTION (PTY) LTD.**

Co. Reg. No. 1983/008184/07 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 last application and harvest:	
Table grapes (do not apply after pea-berry size)	4 to 6 weeks
Wine grapes and Potatoes	14 days
Tomatoes	7 days

**NOTE**

**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.
- Harmful if inhaled or swallowed.
- Mild irritant to eyes and skin. Weak potential for skin sensitization.
- Toxic to fish and aquatic organisms.
- Store in a cool, dry, well-ventilated place in the original container, tightly closed and secured.
- Store away from food, feeds, seed, fertilizers and other agricultural remedies.
- **FUNGARREST** may not be used on hydroponical or container grown crops.
- 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 the event of any uncertainty.**

**PRECAUTIONS**

- Avoid inhalation of the dust and spray mist.
- Avoid eye and skin contact.
- Wear a face shield, rubber gloves and respirator when handling the product and preparing the spray mixture.
- Wash contaminated clothes after use.
- Wash with soap and water after use and after accidental skin contact.
- In case of eye contamination, rinse the eyes thoroughly with plenty of clean water for 15 to 20 minutes, holding the eyelid(s) open. If irritation persists, obtain medical assistance.
- Do not eat, drink or smoke whilst mixing or applying or before washing hands and face or change of clothing.

- Prevent drift onto other crops, grazing, rivers, dams or areas not under treatment or to nearby water sources.
- Do not use close to fishponds, fish tanks or aquaria.
- Thoroughly clean spraying equipment directly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- Containers and packages must be completely emptied before being disposed of. Shake out the container/bag thoroughly into the mixing tank and destroy the empty container/bag thereafter and bury it.
- **Never** 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**

**FUNGARREST** is a mixture of cymoxanil and mancozeb and which are group codes 27 and M3 fungicides respectively. Any fungus population may contain individuals naturally resistant to **FUNGARREST** and other group code 27 and 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 **FUNGARREST** or any other group code 27 and M3 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 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.

### **RESISTANCE – ADDITIONAL NOTES**

- Mancozeb (group code M3 fungicide) has a preventative mode of action, whilst cymoxanil (group code 27 fungicide) is a local systemic, with preventative and curative mode of action.
- Cymoxanil should always be used in combination with other fungicides, in other fungicide group codes.
- Cymoxanil is active against pathogen strains that are resistant to (phenylamide, FRAC fungicide group code 4) fungicides.

### **USE RESTRICTIONS**

- Do not use on hydroponical or container-grown crops.
- **FUNGARREST** must not be applied when crops are under severe drought and/or fertility stress conditions. The uptake and activity of systemic compounds may be reduced under these conditions.
- If rain occurs within two hours after treatment, the product performance may be affected and the application must be repeated.
- Consult a representative or the distributor in the event of any uncertainty.

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

#### **General:**

- **FUNGARREST** is most effective when applied in a preventative programme.
- Apply in sufficient water per hectare, to give a thorough coverage of the treated crops.

#### **Compatibility:**

- The compatibility of **FUNGARREST** with other products may be influenced by several factors. These factors may vary and a physical compatibility test must therefore always be performed, before such tank mixture is sprayed.
- When **FUNGARREST** is used in tank mixtures with any other agricultural remedy, all **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label, must be adhered to.

#### **Mixing instructions:**

- Half fill the spray tank with clean water.
- Pre-mix the required amount of **FUNGARREST** with a small volume of water into a smooth cream.
- Add the required amount of creamed **FUNGARREST** to the spray tank, ensuring continuous agitation, while topping up the tank with water to the required level.
- Maintain agitation during application.
- Prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.

**APPLICATION INSTRUCTIONS**

- **FUNGARREST** can be applied with a correctly calibrated conventional high volume ground sprayer that is in a good working order.
- It is recommended to fit hollow cone nozzles to achieve spray of fine to medium droplets.

**APPLICATION RATES**

<b>Crop / Disease</b>	<b>Dosage Rate</b>	<b>Remarks</b>
<u><b>Potatoes and Tomatoes</b></u> Late blight <i>(Phytophthora infestans)</i>	2 to 3 kg / ha	<p><b>High Volume:</b>            Apply as a full cover spray in 500 to 1500 liters water per hectare, depending on plant size. Apply during period of active growth. Commence with the programme as soon as favourable conditions are conducive for Late blight development. Do not apply more than 4 treatments per season. Apply every 10 to 14 days.</p> <p>Use in combination with a standard preventative programme. Use the higher dosage rate when infection pressure increases. Reduce the spray interval to 7 to 10 days, when conditions favour the development of Late blight and use the higher dosage rate under such conditions.</p> <p><b>NOTE</b>  <b>FUNGARREST</b> does not provide effective control against Early blight (<i>Alternaria solani</i>), when used in a 10 to 14 day spray programme. A product registered against Early blight, should therefore be applied with the <b>FUNGARREST</b> treatment, to control Early blight, when conditions favour the development of Early blight.</p>
<u><b>Wine grapes and Table grapes</b></u> Downy mildew <i>(Plasmopara viticola)</i>	200 g / 100 ℓ water (1.0 to 3 kg / ha)	<p>Commence spraying when the first shoots have reached 10 cm length. Repeat every 10 to 14 days. Use a shorter spray interval (7 to 10 days), when conditions are favourable for development of the disease.</p> <p><b>NOTE</b>  <b>Do not use on table grapes after pea-berry size stage.</b></p>