

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.



Fungicide

ALYFOS 800 WDG

Reg. No. L 10784 Act No. 36 of 1947

3: 18/1/2023 – March 2023

A water dispersible granule systemic fungicide for the control of *Phytophthora* fungal diseases on crops as listed.

ACTIVE INGREDIENT

fosetyl-al (alkyl phosphonate)

800 g/kg

GROUP

33

FUNGICIDE



DANGER

Hazard Statements:

Causes mild skin irritation.

Causes serious eye damage.

Precautionary Statements:

IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Wash hands thoroughly after handling. Do not touch eyes.

Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.

kg

villa

UN Number: Not Regulated

Registration holder: VILLA CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1992/002474/07

PO Box 10413, Aston Manor, 1630

Tel. (011) 396 2233

Website: www.villacrop.co.za

24 HR EMERGENCY NUMBERS:

Griffon Poison Centre: +27 82 446 8946

24 HR Transport / Spill Emergency no: (Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

DIRECTIONS FOR USE ENCLOSED

Batch Number:

Date of Manufacture:

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

ALYFOS 800 WDG

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FRAC FUNGICIDE GROUP CODE: 33

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WARNINGS**Withholding periods:**

Minimum time between the last application and harvest:	
Avocados	10 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.

Hazard statements:

Causes mild skin irritation.
Causes serious eye damage.

- May be harmful if inhaled.
- Store in a cool, dry place, away from food and feed.
- Re-entry – Do not enter treated area until spray deposit has dried unless wearing protective clothing.
- **Although ALYFOS 800 WDG is regarded as crop-safe on most important cultivars, do not assume that more sensitive cultivars may be introduced in future and were not included in the trials. It is advisable to test on a small scale before commercial applications commence.**

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 diseases 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**Precautionary statements:**

Wash hands thoroughly after handling. Do not touch eyes.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical help.

- Do not inhale spray mist.
- Wear a face shield when preparing the spray mixture.
- Do not eat, drink or smoke whilst mixing or applying or before washing hands and face and changing clothes.
- Prevent contamination of food, eating utensils, feed and drinking water.
- Prevent spray drift onto other edible crops, grazing, rivers, dams or other areas not under treatment.
- Clean all equipment thoroughly after use and do not pollute the environment with wash water.
- When empty, shake out the container thoroughly, then burn it and do not breathe the smoke.

- **TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler www.croplife.co.za. Do not bury, burn, or donate the container to any other parties that may use it as a container for food or beverages.
- **CLEAN THE EMPTY PLASTIC BAG AS FOLLOWS:** Turn the bag inside out. Hold the bag over the spray or mixing tank and rinse the bag with running water for thirty seconds. Shake the rinsate off into the tank. Repeat the rinsing twice. Cut the bag into pieces and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the bag to any other parties that may use it as container for foodstuffs.

Relevant hazardous components	
Fosetyl-aluminium TC	800 g/kg
Sodium alkyl naphthalene sulfonate	<30 g/kg
Sodium lauryl sulfate	<20 g/kg

FIRST AID TREATMENT

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure and consult a doctor.

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation persists.

Skin: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists.

Eyes: Flush eyes with clean water for at least 15 to 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention from an ophthalmologist.

Ingestion: Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

ADVICE TO PHYSICIAN:

Treat symptomatically and supportively. No specific antidote known. Administer sodium sulphate and activated charcoal if more than a mouthful of the product has been ingested.

RESISTANCE WARNING

ALYFOS 800 WDG is a group code 33 fungicide. Any fungus population may contain individuals naturally resistant to **ALYFOS 800 WDG** and other group code 33 fungicides. The resistant individuals may eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **ALYFOS 800 WDG** or any other group code 33 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 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.

Mode of action: **FOSNIUM 800 WDG** is a systemic fungicide with protective activity, absorbed by leaves and roots, translocated both acropetally and basipetally in the phloem and xylem. It degrades to phosphonic acid (*q.v.*), the likely biologically active species. It also induces host plant defense possibly resulting in inhibition of spore germination or by blocking development of mycelium and sporulation.

USE RESTRICTIONS

- **Do not** apply **ALYFOS 800 WDG** within a week before, or after, a **Copper** application.
- To ensure effective translocation of this systemic product, only use **ALYFOS 800 WDG** on actively growing trees when sufficient sap flow occurs.
- **Do not** treat trees under stress (e.g. heat, drought, waterlogged or heavy fruitset). Application under such conditions may cause damage to the trees (e.g. scorching of leaves or fruit, gummosis).

- **Do not** apply to plants that are oxygen deprived within six (6) days after substantial rains or when soil is waterlogged. The longer the saturation persists, the more the stress will increase. Although this problem seems to be specific to citrus trees, it may also be relevant in other crops. It is therefore desirable to wait until harvesting is completed, before trees are treated with **ALYFOS 800 WDG**.
- **Do not** treat plants if the leaves are wet due to rain or dew. Wait until the leaves are dry before commencing treatment.

Avocados:

- **Do not** allow livestock to graze on the floor of treated groves.

Citrus:

- **ALYFOS 800 WDG** is generally suitable for use on non-bearing trees with green stems. However, some scion/rootstock combinations may exhibit sensitivity. It is therefore recommended that tolerance of trees be confirmed before an orchard is treated.
- Easy peeler varieties (e.g., Mineola) exhibit a certain degree of sensitivity towards **ALYFOS 800 WDG** treatments. Rather apply onto the rootstock areas of such sensitive varieties.
- **Do not** treat Easy peeler varieties, which tend to set very heavy.
- The use of **ALYFOS 800 WDG** to control *Phytophthora* root and Collar rot is more effective when applied preventatively, rather than curatively. It is therefore recommended to commence **ALYFOS 800 WDG** treatments before the first visual signs of disease decline are observed, preferably before stage 4 (according to the scale of disease decline, 0 to 10 as indicated in *Outspan Production Guidelines, Part 3*), to ensure optimal efficiency.
- **Do not** apply **ALYFOS 800 WDG** if waterlogging occurred shortly before harvest or during harvest. Treat only after harvest is completed.

DIRECTIONS FOR USE: Only use as directed.

Compatibility:

- The use of **ALYFOS 800 WDG** in tank mixtures with mineral oils, copper containing products, **Dimethoate**, products from the **Diclorfol** group, products with a high potassium content, or highly alkaline products, is not recommended.
- **ALYFOS 800 WDG** can be used in tank mixtures with **Mancozeb** provided constant agitation is maintained in the spray tank.
- The compatibility of **ALYFOS 800 WDG** with other agricultural chemicals has not been confirmed. If **ALYFOS 800 WDG** is used in combination with any other agricultural chemical, all **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE**, as indicated on that label, must be followed.
- Since **ALYFOS 800 WDG** is to be applied as a light cover spray on citrus, any product to be applied as a high-volume spray must be considered as incompatible with **ALYFOS 800 WDG**.
- Do not use **ALYFOS 800 WDG** with any other pesticides when applying as a trunk paint to citrus.

Mixing instructions:

- Use clean water at all times.
- At least half fill the mixing tank with clean water and activate the agitation system.
- Add the required quantity of **ALYFOS 800 WDG** slowly to the water in the spray tank.
- Maintain adequate agitation during filling, mixing and spraying.
- When **ALYFOS 800 WDG** will be applied as a trunk paint, do not prepare more than two (2) litres of mixture at a time.
- Ensure that the mixture is stirred before painting each trunk.
- In the case of a tank mixture with an emulsifiable concentrate (EC or EW) product, the required quantity of **ALYFOS 800 WDG** must be added first and thoroughly dispersed in the bulk of the water before addition of emulsifiable concentrate product.

Application instructions:

ALYFOS 800 WDG can be applied with correctly calibrated conventional mistblowers or air assisted ground sprayers that are in a good working order. It is recommended to use hollow cone nozzles, to obtain fine to medium droplets.

APPLICATION RATES

Crop / Disease	Dosage rate	Remarks
<u>Avocados</u> <i>Phytophthora</i> Root rot (Established trees)	375 g / 100 ℓ water	<u>Foliar application:</u> Apply as a light cover spray on the foliage. Trees to be sprayed must have a flush of new growth in order, to ensure optimal absorption of the chemical. <u>Corrective treatment:</u> Apply when trees exhibit clear symptoms of Root rot (leaves wilting, yellowing). Commence with treatment when the spring flush is fully developed (normally around September) and repeat every 4 to 5 weeks through the summer, with the final spray in April/May. Trees that are shedding leaves due to Root rot must rather not be treated as they will not be able to absorb sufficient amounts of the product. <u>Maintenance and preventive treatments:</u> Apply where the soil is known to be infected but before disease symptoms show on the trees, OR where disease control must be maintained on trees that have recovered after a corrective treatment. Commence treatment when the spring flush is fully developed (normally around September) and repeat every six (6) weeks throughout the summer season. Apply the last treatment in April / May.
<i>Phytophthora</i> Root rot (Nursery plants)		Apply as a preventive foliar and/or soil treatment in addition to the precautions normally recommended for citrus nurseries. <u>Foliar application:</u> Apply as a foliar treatment and ensure complete coverage of all leaves of the young plants. Repeat every six (6) weeks. <u>Root treatment:</u> Apply sufficient ALYFOS 800 WDG mixture to ensure that the total root containing soil volume is drenched. Repeat every six (6) weeks. Refer “ IMPORTANT NOTES ” below.

Crop / Disease	Dosage rate	Remarks
Citrus <i>Phytophthora</i> root rot (Established trees)	250 g / 100 ℓ water	<p>Trees to be sprayed must have a flush of new growth in order, to ensure optimal absorption of ALYFOS 800 WDG. Apply as a light cover spray on the foliage at 5 to 15 litres spray mixture per tree, depending on tree size.</p> <p><u>Corrective treatment:</u> Apply when trees exhibit clear symptoms of Root rot (leaves wilting, yellowing). Commence with treatment when the spring flush is fully developed (normally around September) and repeat every six (6) weeks through the summer, with the final spray in April.</p> <p>Trees that are shedding leaves due to Root rot must rather not be treated as they will not be able to absorb sufficient amounts of the product.</p> <p><u>Maintenance and preventive treatments:</u> Apply where the soil is known to be infected, but before disease symptoms show on the trees, OR where disease control must be maintained on trees that have recovered after a corrective treatment. Commence with treatment when the spring flush is fully developed (normally around September) and repeat with every flush (normally 3 to 4 flushes per season).</p>
<i>Phytophthora</i> root rot (Nursery plants)		<p>Apply as a preventive foliar and/or soil treatment in addition to the precautions normally recommended for citrus nurseries.</p> <p><u>Foliar application:</u> Apply as a foliar treatment and ensure complete coverage of all leaves of the young plants. Repeat every six (6) weeks.</p> <p><u>Root treatment:</u> Apply sufficient ALYFOS 800 WDG mixture to ensure that the total root containing soil volume is drenched. Repeat every six (6) weeks. Refer “IMPORTANT NOTES” below.</p> <p>Additionally, dip the roots of young trees in the ALYFOS 800 WDG mixture prior to transplanting and follow the preventive programme on young trees planted in soil known to be infected.</p>
<i>Phytophthora</i> root rot and Collar rot	300 to 500 g / 100 ℓ water	<p>Stir the recommended quantity of ALYFOS 800 WDG into 1 litre water. Stir regularly to keep the product in suspension. Paint tree trunks from soil level up to a height of 30 cm. Refer “IMPORTANT NOTES” below.</p> <p>In the case of Collar rot, paint the trunk from 20 cm above the point of infection to 20 cm below it, or down to soil level for infections situated lower down.</p> <p><u>Corrective treatment:</u> Use the higher rate of ALYFOS 800 WDG on trees showing clear symptoms of both Root and Collar rot and Collar rot alone. Commence with treatment in September and repeat at 8 to 10-week intervals until April (maximum four (4) applications).</p> <p><u>Maintenance and preventive treatment:</u> Trees that are exposed to infection, or trees that have recovered following corrective treatment, should be treated using the lower rate of ALYFOS 800 WDG. Commence with treatment in September and repeat at 8 to 10-week intervals until April (maximum four (4) applications).</p>

IMPORTANT NOTES

- **ALYFOS 800 WDG** is a fully systemic fungicide that is translocated both up- and downwards in plants (acro- and basipetally). It is for this reason that effective control of *Phytophthora* root rot can be obtained by application of **ALYFOS 800 WDG** to the foliage of plants. **ALYFOS 800 WDG** is best absorbed by young foliage and application to plants lacking a new leaf flush, may therefore be less effective.
- In Avocado and Citrus nurseries, the drench and foliar treatments can be combined in order to enhance the effect of **ALYFOS 800 WDG**. The **ALYFOS 800 WDG** foliar spray (but not the drench) can also be used in conjunction with drench treatments of products other than **ALYFOS 800 WDG**.
- To ensure that sufficient active ingredient reaches the roots, it is required that stem painting coincides with root flushes. This would normally commence directly following a leaf flush. **ALYFOS 800 WDG** stem paint must also only be applied to actively growing trees (normally between September and April), to ensure sufficient sap flow to distribute the active ingredient within the tree.