



Fungicide

POTENTIAL 500 EC

Reg. No. L 9161 Act No. 36 of 1947

4: 21/1/2023 – Mar2023

A systematic emulsifiable concentrate fungicide for the control of Powdery mildew on the crops listed.

ACTIVE INGREDIENT

spiroxamine (spiroketalamine)

GROUP

5

FUNGICIDE

500 g/l



DANGER

Hazard Statements:

Harmful if swallowed.
Harmful in contact with skin.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Harmful if inhaled.
Suspected of damaging the unborn child.
May cause damage to eyes.
Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

IF SWALLOWED: Get medical help.
IF ON SKIN: Wash with plenty of water and non-abrasive soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

DIRECTIONS FOR USE ENCLOSED

Batch Number:

Date of Manufacture:



villa

UN Number: 3082

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)

POTENTIAL 500 EC

Reg. No. L 9161 Act No. 36 of 1947
 FUNGICIDE GROUP CODE: 5

ACTIVE INGREDIENT:

spiroxamine (spiroketalamine) 500 g/l

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P.O. Box 10413, ASTON MANOR, 1630

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WARNINGS**Withholding periods:**

| Minimum time between the last application and harvest or feeding: | |
|---|--|
| Wine grapes | 21 days |
| Table grapes | Do not apply after commencement of the flowering stage |

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:

| |
|---|
| Harmful if swallowed. |
| Harmful in contact with skin. |
| Causes skin irritation. |
| May cause an allergic skin reaction. |
| Causes serious eye damage. |
| Harmful if inhaled. |
| Suspected of damaging the unborn child. |
| May cause damage to eyes. |
| Very toxic to aquatic life with long lasting effects. |

- Handle with care.
- Harmful if inhaled or in contact with skin.
- Store away from food, feeds, seed, fertilizers and other agricultural chemicals.
- Store in a cool, dry, well-ventilated area in the original container, tightly closed and secured.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area within one (1) day after treatment 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. 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 a 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:**

| |
|---|
| Obtain, read and follow all safety instructions before use. |
| Do not breathe, fume, mist, vapours and spray. |
| Wash hands and face thoroughly after handling. Do not touch eyes. |

| |
|---|
| Do not eat, drink or smoke when using this product. |
| Use only outdoors or in a well-ventilated area. |
| Contaminated work clothing should not be allowed out of the workplace. |
| Avoid release into the environment. |
| Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles. |
| IF SWALLOWED: Get medical help. |
| IF ON SKIN: Wash with plenty of water and non-abrasive soap. |
| IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help. |
| IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| IF exposed or concerned, get medical advice. |
| Get medical help if you feel unwell. |
| Rinse mouth. |
| If skin irritation or rash occurs: Get medical help. |
| Take off contaminated clothing and wash it before reuse. |
| Collect spillage. |
| Store locked up. |
| Dispose of contents/container to suitable landfill in accordance with local regulations. |

- In case of eye contact and eye irritation persists, seek medical advice.
- Wash contaminated clothes daily after use.
- Prevent spray drift onto other crops, grazing, rivers, dams or areas not under treatment.
- Clean the spraying equipment directly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- **TRIPLE RINSE** empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner. 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.
- Destroy the empty container by perforation and flattening and dispose of it in a safe way.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

| Relevant hazardous component | |
|------------------------------|-----------|
| Spiroxamine | 500 g/l |
| Anionic / non-ionic blend | < 250 g/l |
| Phenylmethanol | < 230 g/l |

SYMPTOMS OF HUMAN POISONING

No specific symptoms are known for this product but may include abdominal pain, diarrhoea and vomiting, causes serious eye damage, allergic skin reaction, skin irritation and irritation of mucous membranes.

FIRST AID TREATMENT

- **Skin contact:** If irritation occurs, remove contaminated clothing, shoes and leather goods (e.g., watchbands, belts). Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. If irritation persists, **obtain medical attention**.
- **Eye contact:** Immediately flush the contaminated eyes with gently flowing water for 20 minutes, holding the eyelid(s) open until no evidence of the chemical remains. If irritation persists, **obtain medical attention**.
- **Inhalation:** Remove source of contamination and move victim to fresh air. Keep affected person warm and at rest. Administer oxygen if breathing is difficult. If breathing has stopped, give artificial respiration. **Seek medical attention if irritation persists.**

- **Ingestion: Do not induce vomiting due to solvent.** If vomiting occurs spontaneously, keep person's head lower than hips to avoid aspiration. Rinse mouth with water. Do not give anything by mouth to an unconscious person. Immediately contact a physician or poison control centre for treatment advice.

NOTE TO PHYSICIAN

No specific antidote available. Treat symptomatically. Gastric lavage followed by activated charcoal (carbo medicalis) and sodium sulfate.

Mode of action: POTENTIAL 500 EC is a systemic fungicide with protective, curative and eradicant activity, absorbed by leaf tissue, translocated acropetally in the xylem uniformly distributing within the whole leaf. It inhibits ergosterol biosynthesis, by inhibition of sterol- Δ^{14} -reductase and Δ^8 to Δ^7 -isomerase (SBI Class II).

RESISTANCE WARNING

POTENTIAL 500 EC is a group code 5 fungicide. Any fungus population may contain individuals naturally resistant to **POTENTIAL 500 EC** and other group code 5 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **POTENTIAL 500 EC** or any other group code 5 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,
- integrate other control methods (chemical, cultural, biological) into disease control programmes.

For specific information on resistance management contact the registration holder of this product.

DIRECTIONS FOR USE: Only use as directed.

Compatibility:

- **POTENTIAL 500 EC** can be used on grapes in tank mixtures with any one of the following: **Fenhexamid 500 SC, Delta-Thrin 25 EC, Judo 50 EC, Villa Unizeb 750 WDG, Villa Unizeb 800 WP, Taurus 500 SC, Copper Oxychloride WP, Capacity 500 EC** and **Fortune 500 SC**. Tank mixtures of **POTENTIAL 500 EC** with other products are not recommended.
- **Do not** apply **POTENTIAL 500 EC** and products not listed above within one (1) one week of each other.
- **Do not** apply **POTENTIAL 500 EC** in combination with surfactants, stickers or as a tank mixture with trace or macro element foliar feeds in grapes.
- A physical compatibility test of all products involved is recommended before application, as formulations can be altered, and water quality can vary from area to area.
- Always consult the labels of products to be tank mixed with **POTENTIAL 500 EC**.

Mixing instructions:

- Fill the spray tank to half of the desired volume with clean water and ensure continuous agitation.
- Add the required quantity of **POTENTIAL 500 EC** to the mixing tank, while agitation is continued.
- Note the following formulation mixing sequence if other products will be tank mixed with **POTENTIAL 500 EC**: buffer/acidifier; powders or granules, suspension concentrate, emulsifiable formulations (EC/EW), wetters. Pre-mix each product separately with a small volume of water before adding it to the spray tank. Thereafter, fill the tank to the required volume with clean water while maintaining agitation to ensure thorough mixing of the spray mixture before application commences.
- **Replace cap directly after use.**
- Ensure continuous agitation during mixing and application.
- The spray mixture must be sprayed immediately after mixing. Prepared spray mixture must not be left in the spray tank for any length of time, e.g., overnight.

Application:

- **Calibration:** It is important to ensure that all application equipment is in good working order and correctly calibrated to apply the required spray volumes and dosage rate. Ensure good coverage by using the spray volumes as indicated.
- **Rain:** Repeat the application if rain falls within two (2) hours after application.

APPLICATION RATES

| Crop / Disease | Dosage rate | Remarks | | | | | | | | | | | | | | |
|---|--|---|-------------------|----------------------------|--|--------------------|---------------------|---|------------|-------------|-------------------------------|-------------|---|--------------------------------|--------------|---|
| Table grapes Powdery mildew (<i>Oidium tuckeri</i>) | High volume application: 10 to 14-day programme: 60 ml / 100 l water (300 to 600 ml / ha) | Start spraying when shoots are ± 2 to 5 cm long. Repeat at indicated intervals. Do not apply after flowering began. Do not apply more than three (3) POTENTIAL 500 EC treatments per season. Apply other non-related, registered fungicides to control Powdery mildew after flowering. | | | | | | | | | | | | | | |
| | 6 ml / 10 l water (Home garden) | As above. Spray to point of run-off and ensure even coverage. | | | | | | | | | | | | | | |
| Wine grapes Powdery mildew (<i>Oidium tuckeri</i>) | High volume application: 10 to 14-day programme: 60 ml / 100 l water (180 to 900 ml / ha) | Start spraying when shoots are ± 2 to 5 cm long. Repeat at indicated intervals. Refer to notes below. | | | | | | | | | | | | | | |
| NOTES - Application in grapes: | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> High volume application: Spray to point of runoff and ensure even coverage. Depending on leaf surface area at time of application, apply 300 to 1500 litres spray mixture per hectare as follows: <table border="1"> <thead> <tr> <th rowspan="2">Crop stage</th> <th colspan="2">Water volume (l/ha)</th> </tr> <tr> <th>Wine grapes</th> <th>Table grapes</th> </tr> </thead> <tbody> <tr> <td>Shoots 2 to 5 cm long, up until just before flowering</td> <td>300 to 750</td> <td>500 to 1000</td> </tr> <tr> <td>Flowering to pea-size berries</td> <td>750 to 1000</td> <td>-</td> </tr> <tr> <td>Pea-size berries up to harvest</td> <td>1000 to 1500</td> <td>-</td> </tr> </tbody> </table> | | | Crop stage | Water volume (l/ha) | | Wine grapes | Table grapes | Shoots 2 to 5 cm long, up until just before flowering | 300 to 750 | 500 to 1000 | Flowering to pea-size berries | 750 to 1000 | - | Pea-size berries up to harvest | 1000 to 1500 | - |
| Crop stage | Water volume (l/ha) | | | | | | | | | | | | | | | |
| | Wine grapes | Table grapes | | | | | | | | | | | | | | |
| Shoots 2 to 5 cm long, up until just before flowering | 300 to 750 | 500 to 1000 | | | | | | | | | | | | | | |
| Flowering to pea-size berries | 750 to 1000 | - | | | | | | | | | | | | | | |
| Pea-size berries up to harvest | 1000 to 1500 | - | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> Low volume application: POTENTIAL 500 EC can be applied as a low volume application. Calculate the volume of product required per hectare from the corresponding high-volume application. However, the concentration of the spray mixture may not be four (4) times stronger than that of a high-volume application concentration. Apply in at least 250 litres water per hectare and ensure even coverage. | | | | | | | | | | | | | | | | |
| Mangoes Powdery mildew (<i>Oidium mangiferae</i>) | 60 ml / 100 l water | Apply first treatment at the first signs of infection (normally when 50 % of the flowers are open). Repeat at 10 to 14-day intervals up to 100 % petal drop. This is followed by a further 2 to 3 sprays depending on weather conditions and uniformity of the flowering period. Apply as a cover spray and ensure complete coverage of the flower panicles. | | | | | | | | | | | | | | |
| | 6 ml / 10 l water (Home garden) | | | | | | | | | | | | | | | |
| Roses Powdery mildew (<i>Sphaerotheca pannosa</i>) | 90 ml / 100 l water | Only roses in tunnels and enclosed areas. Apply at the first signs of infection as a high-volume spray. Repeat at 7 to 10-day intervals, but do not exceed three (3) applications per season. Apply alternative registered fungicides for further control of powdery mildew. NOTE Some rose varieties may be sensitive to POTENTIAL 500 EC . Therefore, it is recommended to conduct a compatibility test on a few roses prior to a commercial / large scale application. | | | | | | | | | | | | | | |
| | 9 ml / 10 l water (Home garden) | | | | | | | | | | | | | | | |

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

- **DELTA-THRIN 25 EC** (L 7426 / N-AR 0992 / W1301406) = **DELTA-THRIN 25EC** (L 7263 / W 130451),
- **JUDO 50 EC** (L 7785 / N-AR 1104 / W 1301413) = **LAMBDA 50 EC** (L 7787 / W 130687) = **LAMBDA-CYTHRIN 50 EC** (L 8343),
- **VILLA UNIZEB 750 WDG** (L 8812) = **NEWZEB 750 WDG** (L 8811) = **COZEB 750 WDG** (L 8964),
- **VILLA UNIZEB 800 WP** (L 8056 / N-AR 1091) = **COZEB 800 WP** (L 7098) = **NEWZEB 800 WP** (L 8167),
- **TAURUS 500 SC** (L 8499 / N-AR 1137) = **IPRODIONE 500 SC** (L 8459),
- **COPPER OXYCHLORIDE WP** (L 6231/ N-AR 1879 / W 130952) = **COPPER OXYCHLORIDE WP** (L 5809),
- **CAPACITY 500 SC** (L 9206 / N-AR 1781 / W1301412) = **RIPPLE 500 EC** (L 9208) (**Bromopropylate**) and
- **FORTUNE 500 SC** (L 9918) = **FIGURE 500 SC** (L 9920) (**Folpet**).

DELTA-THRIN 25 EC, JUDO 50 EC, VILLA UNIZEB 800 WP, TAURUS 500 SC, COPPER OXYCHLORIDE WP, CAPACITY 500 SC and FORTUNE 500 SC
are registered products of
VILLA CROP PROTECTION (PTY) LTD.

LAMBDA-CYTHRIN 50 EC, NEWZEB 800 WP and COZEB 750 WDG
are registered products of
CROPASURE (PTY) LTD.

DELTA-THRIN 25EC, LAMBDA 50EC, NEWZEB 750 WDG, COZEB 800 WP, IPRODIONE 500 SC, COPPER OXYCHLORIDE WP, RIPPLE 500 EC and FIGURE 500 SC
are registered products of
UNIVERSAL CROP PROTECTION (PTY) LTD.