READ THE LABEL BEFORE USE. KEEP OUT OF REACH OF CHILDREN AND ANIMALS. SHAKE THE BOTTLE WELL BEFORE USE

Fungicide

NOBEL 250 EC

Reg. No. L 9234 Act No. 36 of 1947

6: 30/05/2024 – Aug2024

An emulsifiable concentrate systemic fungicide for the control of Powdery mildew in crops as listed.

ACTIVE INGREDIENT

bupirimate (pyrimidine) 250 g/ℓ

GROUP 8 FUNGICIDE

DANGER

Hazard Statements:

Flammable liquid and vapour.
May be harmful if swallowed.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Harmful if inhaled.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.
Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
Avoid release into the environment.

ℓ

villa

UN Number: 1993

Registration holder: UNIVERSAL CROP PROTECTION (PTY) LTD.
Co. Reg. No. 1983/008184/07
65 Botes Road, Glen Marais, Kempton Park, 1619
Tel. (011) 396 2233
Website: www.villacrop.co.za

IN CASE OF POISONING / 24 HR EMERGENCY NUMBERS:
Griffon Poison Information Centre (National): +27 82 446 8946
Poison Information Helpline (National): +27 861 555 777
24 Hr Transport / Spill emergency no: (Hazcall24) +27 86 044 4411
(Client: Villa Crop Protection)

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

DIRECTIONS FOR USE ENCLOSED
Batch Number:
Date of Manufacture:

NOBEL 250 EC
Reg. No. L 9234 Act No. 36 of 1947
FRAC FUNGICIDE GROUP CODE: 8

ACTIVE INGREDIENT :
bupirimate (pyrimidine)……..250 g/ ℓ

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WARNINGS

Withholding periods:

Allow the following number of days between the last application and harvest:	
Pome Fruit	14 days
Cucurbits (including courgettes/ zucchinis/ baby marrows, butternut, gem squash, gherkins, hubbard squash, marrows, muskmelon/ cantelope/ spanspek, patty pans, pumpkins, squashes & watermelons	3 days
Mangoes	Apply only until 100 % petal fall
Stone fruit (including Apricots, Cherries, Nectarines, Peaches, Plums & Prunes)	14 days
Table Grapes	14 days
Tomatoes	2 days

NOTE

THE RECOMMENDED WITHHOLDING PERIODS MEET LOCAL RESIDUE LEVEL REQUIREMENTS AND NOT NECESSARILY THE REQUIREMENTS FOR EXPORT. WHEN THE CROP IS DESTINED FOR EXPORT, CONSULT THE REQUIREMENTS AND GUIDELINES FOR EXPORT BEFORE THE PRODUCT IS USED.

Hazard statements:

Flammable liquid and vapour.
May be harmful if swallowed.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Harmful if inhaled.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.
Very toxic to aquatic life with long lasting effects.

- Handle with care.
- Store in a cool, dry, well-ventilated place, away from food and feed stuffs, in the original container.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.
- **In case of poisoning call a doctor and make this label available to him/her**.

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 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

Precautionary statements:

Obtain, read and follow all safety instructions before use.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ground and bond container and receiving equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Avoid breathing fumes, mists, vapours, or spray.
Wash hands and face thoroughly after handling. Do not touch eyes.
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 emergency medical help immediately.
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. Get medical help.
IF exposed or concerned, get medical advice.
Get medical help if you feel unwell.
Do NOT induce vomiting.
If skin irritation or rash occurs: Get medical help.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Store in a well-ventilated place. Keep cool. Keep container tightly closed.
Store locked up.
Dispose of content/container to suitable landfill in accordance with local regulations.

- Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face and change of clothing.
- Do not spray or allow spray drift onto other crops, grazing, rivers, dams and areas not under treatment or to nearby water sources.
- Thoroughly clean spraying equipment directly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- **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.
- **Do not** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING

Symptoms may include incontinence and subdued behaviour as well as salivation and an increased respiration rate. Ingestion of high doses may result in renal failure.

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 IF exposed or concerned, get medical advice.
- Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. If breathing stops, administer artificial respiration and immediately seek medical attention. **Seek medical attention.**
- Skin contact: Remove contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. **Obtain medical attention if irritation or rash occurs.**

- Eye contact: Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention.**
- Ingestion: **Seek medical attention immediately** or call a poison control centre for treatment advice. **Do not induce vomiting due to aromatic solvent.** Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

NOTE TO PHYSICIAN
Treat symptomatically and give supportive therapy; administer activated charcoal. Take care to prevent aspiration of gastric contents if gastric lavage is performed.

Relevant hazardous components	
Bupirimate	250 g/ℓ
Kerosene	<150 g/ℓ
n-Butanol	<350 g/ℓ
Solvent, naphtha	<250 g/ℓ

NOTE: The ingredients listed above contribute to the overall GHS classification, the remaining ingredients do not have to be listed according to the South African Regulations for Hazardous Chemical Agents 2021, Regulation 14(b).

In case of poisoning, call the following number: +27 82 446 8946 (Griffon Poison Information Centre) or +27 861 555 777 (Poison Information Helpline).
In case of a chemical spill call the following 24 Hr Transport / Spill emergency number: +27 86 044 4411 (Hazcall24 / Client: Villa Crop Protection).

RESISTANCE WARNING
NOBEL 250 EC is a group code 8 fungicide. Any fungus population may contain individuals naturally resistant to **NOBEL 250 EC** and other group code 8 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **NOBEL 250 EC** or any other group code 8 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.

Mode of Action:
NOBEL 250 EC contains **bupirimate** which is part of FRAC group 8, aminopyrimidols. The active is an adenosine deaminase inhibitor that affects nucleic acid synthesis and thereby inhibits sporulation. **Bupirimate** is systemic, moving through the xylem and also has translaminar movement. Applications with **NOBEL 250 EC** provide protective and limited curative action.

DIRECTIONS FOR USE: Use only as directed.

NOTICE TO USER:
Read the entire label before application. This agricultural remedy is to be used only in accordance with the instructions on the label. It is an offence under the Act to use this agricultural remedy for any purpose in a manner contrary with the directions on the label.

Compatibility:

- **NOBEL 250 EC** is compatible with the surfactant **VILLA 51**.
- The compatibility of **NOBEL 250 EC** with other agrichemical products or fertilizers has not been tested. 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.
- The compatibility of **NOBEL 250 EC** in tank mixtures with other products has not been confirmed and can be influenced by the formulations involved, as well as the water quality.

- If the products are physically compatible, this does **NOT** imply that they will be biologically compatible (effective against the target pathogen), thus the registration holder will not take responsibility for ineffective control in these scenarios.
- Always consult the labels of products to be tank mixed with **NOBEL 250 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 **NOBEL 250 EC** to the mixing tank, while agitation is continued.
- **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:
- 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 that good, evenly distributed coverage is obtained on the target area.

Application instructions – Table Grapes
- Apply just the point of run-off using 500 to 1500 litres of spray mixture per hectare as indicated below.

Growth stage	High Volume spray mixture: litres per hectare
	Table Grapes
Shoot length 2.5 cm to 25 cm	500 to 750
25 cm shoot length till just prior to flowering	750 to 1000
Flowering to pea berry stage	750 to 1200
Pea berry stage to harvest	1000 to 1500

Application timing – Table Grapes
- To comply with resistance management practices, a maximum of four (4) **NOBEL 250 EC** treatments are recommended per season.
- The remainder of the season's Powdery mildew programme must be done with registered, non-related fungicides.
- For optimal control of Powdery mildew under high disease pressure conditions, rates of 150 to 200 mℓ per 100 litres water is recommended.
- **DO NOT** apply the highest recommended rate (200 mℓ per 100 litres water) **NOBEL 250 EC** to sensitive grape cultivars during extreme weather conditions. Emulsifiable concentrate formulations like **NOBEL 250 EC** may negatively affect the soft film around young berries between fruit set and pea berries during extended cold weather.

Post Spray Equipment Cleaning
It is essential to rinse the spray tank and all hoses with a 0.1 % solution of either calcium chloride or ammonium hydroxide or the recommended rate of **Protank® liquid cleaner** according to the product label. Allow this solution to stand in the spray equipment for 15 minutes; empty the spray equipment; repeat the rinsing with a 0.1 % solution of calcium chloride or ammonium hydroxide for 15 minutes; rinse all equipment with water. Nozzles and fitters must be cleaned individually. Rinse water and solution should be drained in a cesspool or drain where it will not contaminate any water source.

APPLICATION RATES

Crop / Disease	*Dosage rate*	*Remarks*
Pome Fruit Powdery mildew (*Podosphaera leucotricha)*	40 to 60 mℓ / 100 ℓ water (4 to 6 mℓ / 10 ℓ water)	**Refer to "Resistance warning and application instructions" above. Apply preventively as part of a spray programme.** Use the higher concentration under conditions of a high infection pressure. Repeat application at 10 to 14-day intervals. Always ensure complete coverage.
Cucurbits (including courgettes/ zucchinis/ baby marrows, butternut, gem squash, gherkins, hubbard squash, marrows, muskmelon/ cantelope/ spanspek, patty pans, pumpkins, squashes & watermelons) Powdery mildew (*Sphearotheca fuliginea / Erisyphe cichoracearum*)	40 to 60 mℓ / 100 ℓ water (4 to 6 mℓ / 10 ℓ water)	**Refer to "Resistance warning and application instructions" above. Apply preventively as part of a spray programme.** Use the higher concentration under conditions of a high infection pressure. Repeat application at 10 to 14-day intervals. Always ensure complete coverage.
Mangoes Powdery mildew (*Oidium mangiferae)*	40 mℓ / 100 ℓ water (4 mℓ / 10 ℓ water)	**Refer to "Resistance warning and application instructions" above. Apply preventively as part of a spray programme.** Apply **NOBEL 250 EC** at 14-day intervals as soon as the first infection of Powdery mildew is noticed and continue up to 100 % petal fall. The first application is usually made when 50 % of the flowers on the panicles are open. A further 3 to 4 applications are required depending on the prevailing weather conditions and uniformity of the flowering period. Alternate with fungicides with a different mode of action. A high-volume application must be made, to ensure a good coverage of the flower panicle.
Stone fruit (including Apricots, Cherries, Nectarines, Peaches, Plums & Prunes) Powdery mildew (*Oidium leucoconium*)	60 mℓ / 100 ℓ water (6 mℓ / 10 ℓ water)	**Refer to "Resistance warning and application instructions" above. Apply preventively as part of a spray programme.** Start with the first application as soon as the first infection of Powdery mildew is noticed. Repeat application at 10 to 14-day intervals and alternate with fungicides with different mode of action. The last application must not be applied later than 14 days before harvest. Always ensure complete coverage.

Crop / Disease	*Dosage rate*	*Remarks*
Table grapes Powdery mildew (*Oidium tuckeri/ Uncinula necator/ Erysiphe necator*)	100 to 200 mℓ / 100 ℓ water (10 to 20 mℓ / 10 ℓ water)	**Refer to "Resistance warning and application instructions" above. Apply preventively as part of a spray programme.** Apply **NOBEL 250 EC** as part of a program application starting from 2 to 5 cm shoot length. Repeat applications at 10 to 14-day intervals. **DO NOT apply more than of four (4) NOBEL 250 EC treatments per growing season.** Alternate applications of **NOBEL 250 EC** with other registered fungicides with a different mode of action. Under high disease pressure, or when conditions favour the development of the disease, use the upper range of doses recommended for **NOBEL 250 EC.** **DO NOT** apply the highest rate of the dose range of **NOBEL 250 EC** to sensitive grape cultivars during extreme weather conditions and especially between fruit set and pea berry stage. Apply as a full cover spray to the point of run-off in at least 500 to 1500 litres spray mixture per hectare depending on the size and density of the crop. **Refer to "Application Instructions"** above. Always ensure complete coverage.
Tomatoes Powdery mildew (*Oidiopsis sicula/Leveilla taurica*)	90 mℓ / 100 ℓ water (9 mℓ / 10 ℓ water) **PLUS** **Villa 51** at 18 mℓ / 100 ℓ water (1.8 mℓ / 10 ℓ water) (0.018 %)	**Refer to "Resistance warning and application instructions" above. Apply preventively as part of a spray programme.** Apply **NOBEL 250 EC** as part of a program application starting from two (2) weeks after transplanting, before the first infection of Powdery mildew is noticed. Repeat application at 7-day intervals and alternate with fungicides with a different mode of action. **Apply a maximum of four (4) applications of NOBEL 250 EC** per growing season. Ensure **complete coverage** of the total canopy. Always add **Villa 51** to **NOBEL 250 EC** applications to enable adequate crop coverage.

The following product mentioned in this label is equivalent to the product listed below:

- **VILLA 51** (L 8050 / W 130454 / N-AR 1090) = **WEN 51** (L 8315).

VILLA 51 and **WEN 51** are registered products of **UNIVERSAL CROP PROTECTION (PTY) LTD.**

Protank® liquid cleaner is a registered trademark of **Winfield Solutions, LLC.**