



Fungicide

TYPHOON 250 SC

Reg. No. L 8397 Act No. 36 of 1947
N-AR 1297

3: 18/01/2023 – July 2023

A suspension concentrate systemic fungicide with translaminar action for the control of diseases on crops as listed.

ACTIVE INGREDIENT

procymidone (dicarboximide) 250 g/l

GROUP

2

FUNGICIDE



Hazard Statements:

May cause an allergic skin reaction.
Harmful to aquatic life.

Precautionary Statements:

IF ON SKIN: Wash with plenty of water and non-abrasive soap.
Avoid release into the environment.

WARNING



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)

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

DIRECTIONS FOR USE ENCLOSED

Batch Number:

Date of Manufacture:

TYPHOON 250 SC

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FRAC FUNGICIDE GROUP CODE: 2

ACTIVE INGREDIENT:

procymidone (dicarboximide)..... 250 g/l

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PO Box 10413

ASTON MANOR, 1630, TEL.: (011) 396 2233

WARNINGS**Withholding periods:**

Minimum number of days between last application and harvest or feeding:	
Wine grapes	7 days
Onions	8 days
Potatoes	35 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:

May cause an allergic skin reaction.
Harmful to aquatic life.

- Handle with care.
- 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 chemicals.
- 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.**

Aerial application:

Notify all inhabitants in the immediate vicinity of the lands to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

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**Precautionary statements:**

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 ON SKIN: Wash with plenty of water and non-abrasive soap.
If skin irritation or rash occurs: Get medical help.

Dispose of contents/container to suitable landfill in accordance with local regulations.

- Do not inhale spray mist.
- Avoid contact with skin and eyes.
- Wash contaminated clothing daily after use.
- Do not eat, drink or smoke whilst mixing and applying, or before washing hands and face and change of clothing.
- Do not spray or allow drift of spray onto other crops, grazing, rivers, dams and areas not under treatment or to nearby water sources.
- 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 (3) 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.
- Prevent contamination of food, feed, drinking water and eating utensils.

Relevant hazardous components	
Procyimidone	250 g/l
Monoethylene glycol	<50 g/l
Polyethylene glycol nonylphenyl ether	<10 g/l
1,2-Benzisothiazoline-3-one blend	<1 g/l

SYMPTOMS OF HUMAN POISONING

Prolonged or repeated exposure may irritate the respiratory tract, eyes and skin and may cause headaches, nausea, vomiting, weakness and diarrhoea.

FIRST AID TREATMENT

- **Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.
- **Skin contact:** Remove contaminated clothing and wash before re-using. Wash skin gently and thoroughly with water and non-abrasive soap. **Seek medical attention if skin irritation or rash occurs.**
- **Eye contact:** Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after five (5) minutes and continue rinsing. Seek medical attention if irritation persists.
- **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. If alert, rinse mouth with plenty of water.

NOTE TO PHYSICIAN

There is no specific antidote available. Treat symptomatically and supportively.

RESISTANCE WARNING

TYPHOON 250 SC is a group code 2 fungicide. Any fungus population may contain individuals naturally resistant to **TYPHOON 250 SC** and any other group code 2 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **TYPHOON 250 SC** or any other group code 2 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,
- for tank mixing or alternation with products in fungicide group codes X or 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:

TYPHOON 250 SC contains the **procymidone**. **Procymidone** belongs to FRAC's mode of action group 2. It is a systemic fungicide with protective and curative activity and is absorbed by the roots and translocated acropetally in the xylem to the leaves and flowers. It affects the mitogen-activated protein histidine kinase in osmotic signal transduction.

USE RESTRICTIONS

- **Do not** apply to table grapes or to grapes used for the production of dried fruit.
- **Do not** apply to any other crop not listed on this label.

DIRECTIONS FOR USE: Use only as indicated.**Compatibility:**

- **TYPHOON 250 SC** is compatible with **Mancozeb 800 WP**.
- The compatibility of **TYPHOON 250 SC** with other products may be influenced by various factors. As changing factors may vary, a physical compatibility test must always be performed prior to application of such a tank mixture.
- When **TYPHOON 250 SC** is used in combination with any other agricultural remedy, adhere to all **WARNINGS, PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label.

Acidity of the spray water:

- The efficacy of **TYPHOON 250 SC** may be reduced by water with a high pH value and very hard water (>1 000 ppm solutes).
- Optimal efficacy of **TYPHOON 250 SC** is obtained at a water pH of 4.5 to 5.5. Water with a higher or lower pH than 4.5 to 5.5 should be buffered by using **Commodobuff**.

Mixing instructions:

- Fill the spray tank $\frac{1}{4}$ to $\frac{1}{2}$ full of water and agitate continuously.
- Add the required amount of **TYPHOON 250 SC** to the tank, while filling the tank to the required volume with water.
- Where **Commodobuff** is used to adjust the pH of the water, it must be mixed with the total volume of water required for that particular tank mixture, before adding the **TYPHOON 250 SC**.
- Maintain continuous agitation during mixing and spraying.
- Prepared spray mixture must not be left in the spray tank for any length of time, e.g., overnight.

APPLICATION**Ground application:**

TYPHOON 250 SC can be applied with conventional high volume ground spraying equipment. It is important to ensure that the spray equipment is calibrated prior to application to ensure that the correct delivery rate and even distribution of the spray mixture is obtained.

Aerial application (Potatoes):

Aerial application of **TYPHOON 250 SC** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- **Volume:** A spray mixture volume of 30 litres per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- **Droplet coverage:** 25 to 35 droplets per cm² must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 280 to 300 micron is recommended. Limit the production of fine droplets less than 150 micron (high drift and evaporation potential) to a minimum.
- **Flying height:** Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking.
- Use suitable **atomising equipment** that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.

- Position all the atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C.
- Stop spraying if the wind speed exceeds 15 km per hour.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
 - a) reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage),
 - b) damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the aerial spray operator knows exactly which fields to spray.

Obtain an assurance from the aerial spray operator that the above requirements will be met, and that relevant data will be compiled in a logbook and kept for future reference.

APPLICATION RATES

Crop and Disease	Dosage rate / 100 ℓ water	Remarks
Wine Grapes Botrytis rot (<i>Botrytis cinerea</i>)	200 ml	Apply as a fine mist spray. Ensure thorough covering of the grape bunches. Apply three (3) times at the following growth stages: a) Approximately in the middle of flowering (full bloom). b) Prior to closing of the bunches. c) When the berries start to soften.
Onions Purple blotch (<i>Alternaria porri</i>)	1.5 to 2.0 ℓ / ha	Application should commence when the first symptoms of the disease is noticed. Repeat application every 10 to 14 days. If the infection is severe, use the higher dosage rate.
Potatoes Early blight (<i>Alternaria solani</i>)	0.5 to 1.0 ℓ PLUS 2.0 kg / ha Mancozeb 800 WP	<u>Ground application:</u> Apply in 500 to 750 litres water per hectare.
	0.6 to 1.2 ℓ PLUS 2.0 kg / ha Mancozeb 800 WP	<u>Aerial application:</u> Apply in 30 to 40 litres water per hectare.
Notes - Ground and Aerial application:		
<ul style="list-style-type: none"> • Apply as part of a spray programme and use sufficient spray mixture to obtain good coverage of the plants. • Apply as soon as the first symptoms of the disease are noticed. • Repeat the application at 7- to 10-day intervals until the aerial parts of the plants start to die back. • Use the higher dosage rate if the infection is severe. • The addition of Mancozeb 800 WP will provide protection against Late blight. 		

The following product mentioned in this label can be replaced with an equivalent product:

- **COMMODOBUFF** (L 5390 / N-AR 1107) = **AQUABUFF** (L 5451 / W 130060).

AQUABUFF is a registered product of **VILLA CROP PROTECTION (PTY) LTD.**

COMMODOBUFF is a registered product of **UNIVERSAL CROP PROTECTION (PTY) LTD.**