

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

SHAKE THE BOTTLE WELL BEFORE USE.

Fungicide



SOURCE 400 SC

Reg. No. L 9283 Act/Wet No. 36 of/van 1947

2:25/5/2015-June 2017

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

'n Suspensie konsentraat swamdoder met sistemiese werking vir die beheer van swamsiektes op gewasse soos aangedui.

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

pyrimethanil (aniline derivative) **400 g/l** pirimetanil (anilien derivaat)

FRAC FUNGICIDE GROUP CODE **9** FRAC SWAMDODER GROEPKODE



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

UN Number: 3082

Willow Set & Print 011 394-4486



CAUTION
VERSIGTIG



GEBRUIKSAANWYSLINGS INGESLUIT

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

Date formulated:
Formuleringsdatum:

DIRECTIONS FOR USE ENCLOSED

REFER TO DETAILS PRINTED
ON CONTAINER/BAG

Batch number:
Lotnommer:

SOURCE 400 SC

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ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

pyrimethanil (aniline derivative) / pirimetanil (anilien derivaat)..... 400g/l

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**

Allow the following number of days between last application and harvest or grazing of the crops as listed below:	
Table and Wine grapes	35 days
Apples and Pears (Control of Scab and Powdery mildew)	35 days
Stone fruit (Nectarines, Peaches, Plums, Apricots)	3 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 swallowed, inhaled or when absorbed through the skin.
- Mild skin and moderate eye irritant.
- Harmful to fish, aquatic organisms and wildlife. Do not contaminate dams, rivers, lakes or any other water sources.
- Store the product in the original container in a cool, dry, well-ventilated place away from food, seed, feedstuff and other agricultural chemicals.
- 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 products 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

- Avoid inhalation of the spray mist.
- Avoid eye and skin contact.
- Wear a face shield, rubber gloves and boots when handling the concentrate, preparing the spray mixture and during application.
- Wash with soap and water after use and accidental skin contact.
- In case of eye contamination, rinse the eyes thoroughly with plenty of clean water for at least 15 minutes, holding the eyelid(s) open. Obtain medical assistance immediately.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke whilst mixing and applying the product or before washing hands and face and change of clothing.
- Prevent drift onto other crops, grazing, rivers, dams or 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** 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 minimum of 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.
- Destroy the empty container by perforation and flattening and dispose of it in a safe way.
- **Do not** re-use the empty container for any other purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.

RESISTANCE WARNING

SOURCE 400 SC is a group code 9 fungicide. Any fungus population may contain individuals naturally resistant to **SOURCE 400 SC** and other group code 9 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **SOURCE 400 SC** or any other group code 9 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.

Resistance management: FRAC GUIDELINES* for the control of Apple and Pear scab:

- Apply QoI fungicides preventively. Under conditions of high disease pressure, the spray interval must not exceed 7 to 10 days.
- Apply QoI fungicides as per manufacturer's instructions for the target disease (or complex), at the specific crop growth stage indicated according to tree size. It is critical to delay the build-up of resistant pathogen populations to obtain effective disease management.
- QoI fungicides must be applied only in mixtures with other products that will contribute to the effective control of the target pathogens.
- Apply a maximum of 3 QoI containing fungicide sprays per crop. A maximum of 4 QoI fungicide applications may be used where 12 or more applications are made per crop.
- A maximum of 2 consecutive QoI fungicide sprays are preferred. Where efficacy was adversely affected, alternate the QoI containing fungicide with fungicides from a different mode of action group.

Refer to the FRAC Web Site (www.frac.info/frac/index.htm) for the latest guidelines.

Additional notes on resistance management in vines:

Do not exceed two (2) **SOURCE 400 SC** applications per season per vineyard. If two (2) **SOURCE 400 SC** treatments are applied, it must **not** be applied consecutively. A registered fungicide that will control *Botrytis*, with a different mode of action (different chemical Group Code), must be applied between the two (2) **SOURCE 400 SC** applications.

DIRECTIONS FOR USE: Only use as indicated.

Compatibility:

- **SOURCE 400 SC** is compatible with **Detect 400 SC** and **Unite 500 WDG**.
- **SOURCE 400 SC** is **NOT** compatible with **Aluminium** containing products such as **ALIETTE® WG** (L 5689), **MIKAL®-M** (L 2017) or **VERITA®** (L 6625).
- Do not add adjuvants when using **SOURCE 400 SC**.
- Although **SOURCE 400 SC** seems to be compatible with most other agrochemical products used in grapevines, it must be realised that the compatibility of **SOURCE 400 SC** with other products may vary. A physical compatibility test must always be performed before such a tank mixture is sprayed. Water quality may influence the compatibility of **SOURCE 400 SC**.
- When **SOURCE 400 SC** is used in conjunction with any other agricultural remedy, adhere to all **WARNINGS, PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label.

Mixing instructions:

- Shake the **SOURCE 400 SC** container well before use.
- Half fill the spray tank with clean water.
- Premix the required quantity of **SOURCE 400 SC** with at least 10 litres of water.

- Add the premix to the water in the spray tank.
- Agitate well to obtain a homogeneous emulsion.
- Fill the spray tank with water to the required level while maintaining agitation to ensure thorough mixing.
- Maintain agitation while spraying.
- If another product is to be mixed with **SOURCE 400 SC**, the required quantity of the other product should be premixed, prior to slowly adding to the spray mixture.
- Do not leave the prepared spray mixture in the spray tank for any length of time, e.g. overnight.

Application instructions:

SOURCE 400 SC can be applied with conventional high volume spray equipment. It is important that the sprayer be in good working order and correctly calibrated prior to application, to ensure that the correct delivery rate and even distribution of the spray mixture is obtained.

APPLICATION RATES

Crop and disease	Dosage rate	Remarks
Grapes (Table & Wine) <i>Botrytis cinerea</i>	120 ml / 100 l water	Apply as a high volume full cover spray in 1000 to 1500 litres water per hectare. Number of applications: <ul style="list-style-type: none"> • In cases where three (3) <i>Botrytis</i> control treatments are applied per season, only apply SOURCE 400 SC once e.g. at pea-berry size or 35 days before harvest. Do not apply SOURCE 400 SC as the last <i>Botrytis</i> control treatment. Apply a registered fungicide with a different mode of action before and after the treatment. • When four (4) or more applications are applied per season for <i>Botrytis</i> control, two (2) SOURCE 400 SC treatments may be applied. However, these must not be applied consecutively (e.g. at pea-berry size and 35 days before harvest). Precede/alternate and follow the SOURCE 400 SC treatments in the spray programme with registered fungicides with a different mode of action.
Citrus Post-harvest decay <i>Penicillium digitatum</i> (Green mould), <i>Penicillium italicum</i> (Blue mould) including the Imazalil resistant <i>Penicillium</i> populations	250 ml / 100 l water (1 000 ppm Pyrimethanil)	It is advisable to commence treatment as early as possible after harvest. Before the treatment, fruits must be thoroughly rinsed and disinfected with an approved chlorine disinfectant, as a standard practise. Apply SOURCE 400 SC either as a dip or drench treatment (ambient or hot water), ensuring contact time with the fruit for at least 2 minutes. Use only the ambient treatment on lemons as Maximum Residual Levels can be exceeded with hot water treatment. Do not rinse the fruit after the treatment. Maintain the concentration of the active ingredient in the tanks when topping up. SOURCE 400 SC is highly effective and therefore recommended to control and manage Imazalil tolerant and resistant Penicillium populations.

Crop and disease	Dosage rate	Remarks
Apples and Pears Post-harvest decay (<i>Botrytis cinerea</i> and <i>Penicillium expansum</i>)	125 ml / 100 l water (500 ppm Pyrimethanil)	It is advisable to commence treatment as early as possible after harvest. Before the treatment, fruits must be thoroughly rinsed and disinfected with chlorine as a standard practise. Apply SOURCE 400 SC either as a dip or drench treatment ensuring contact time with the fruit for at least 2 minutes. Do not rinse the fruit after the treatment. Maintain the concentration of the active ingredient in the tanks when topping up.
Apples and Pears Scab (<i>Venturia</i> spp.)	38 ml / 100 l water PLUS	Refer to NOTES below as well as FRAC GUIDELINES for the control of Apple and Pear scab above : Tank mixtures of SOURCE 400 SC and Detect 400 SC or Unite 500 WDG : Although the tank mixtures can be included during any time of the spray programme, it is advised to position the SOURCE 400 SC treatments between beginning of flowering and fruit set for optimal results.
Apples Powdery mildew (<i>Podosphaera leucotricha</i>)	38 ml / 100 l water Detect 400 SC OR	
	38 ml / 100 l water PLUS 10 g / 100 l water Unite 500 WDG	

NOTES

- Apply **SOURCE 400 SC** tank mixtures strictly preventive as part of a programme application. The spray programme must commence at green tip stage and apply at the following intervals:
 - Before flowering up to 75 % petal fall: 7 days
 - After 75 % petal fall: 10 to 14 days
- Do not** apply more than 2 to 3 treatments of **SOURCE 400 SC** either in tank mixture with **Detect 400 SC** or **Unite 500 WDG** per season.
- Apply registered fungicides from other Mode of Action Group Codes as the other treatments in the spray programme.

IMPORTANT

Use the Tree Row Volume (TRV) formula below, to ensure that the correct amount of fungicide is applied per hectare. This is calculated as follows:

High volume rate:

The water to be applied per hectare must be calculated according to the TRV formula:

$$l / ha = \frac{\text{Tree height} \times \text{Tree diameter} \times 937}{\text{Row width}}$$

The TRV calculation is the maximum water volume required when the trees are in full leaf. Use the water volume required per hectare to calculate the amount of **Unite 500 WDG** required per hectare according to the various growth stages of a tree during the season.

Water requirements per hectare as recommended according to the different growth stages of a tree:

Growth stage	% of the high volume water requirement / ha
From greentip to ± 30 % blossom	60 %
From ± full blossom to ± middle November	80 %
From beginning December	100 %

Crop and disease	Dosage rate	Remarks
Stone fruit (Peaches, Plums, Nectarines and Apricots) Post-harvest decay (<i>Botrytis cinerea</i> , <i>Monilinia</i> spp, and <i>Rhizopus stolonifer</i>)	2.0 litres / ha	Apply a single treatment three (3) days before harvest. Apply as a high volume, full cover spray and ensure complete wetting of all fruit.

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

- **DETECT 400 SC** (L 9238) = **INSPECT 400 SC** (L 9182) (**Dithianon**) and
- **UNITE 500 WDG** (L 9325) = **CONNECT 500 WDG** (L 9324) (**Trifloxystrobin**).

DETECT 400 SC and/en **UNITE 500 WDG** are registered products of / is geregisteerde produkte van
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