

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Fungicide



QUANTUM 275 EC

Reg. No. L 8200 Act/Wet No. 36 of/van 1947

2:17/6/2011-June 2017

An emulsifiable concentrate fungicide with systemic action for the control of diseases on apples and pears as listed.

'n Emulgeerbare konsentraat swamdoder met sistemiese werking vir die beheer van siektes op appels en pere soos aangedui.

ACTIVE INGREDIENTS / AKTIEWE BESTANDEDELE

difenoconazole (triazole) **150 g/l** difenokonasool (triasool)
penconazole (triazole) **125 g/l** penkonasool (triasool)

FRAC FUNGICIDE GROUP CODE **3** 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



**HARMFUL
SKADELIK**



GEbruiksaanwysings 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:

QUANTUM 275 EC

Reg. No. L 8200 Act No. 36 of/van 1947

FRAC FUNGICIDE GROUP CODE / FRAC SWAMDODER GROEPKODE: 3

ACTIVE INGREDIENTS / AKTIEWE BESTANDELE:

difenoconazole / difenokonasool (triazole/triasool)..... 150 g/l
 penconazole / penkonasool (triazole/triasool)..... 125 g/l

Registration holder / Registrasiehouer:

UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1983/008184/07 Mpy. Reg. Nr.

PO Box / Posbus 801, Kempton Park, 1620, Tel. (011) 396 2233

**HARMFUL****SKADELIK****WARNINGS****Withholding periods:**

Minimum number of days between last application and harvest or feeding:	
Apples & Pears	14 days

IN THE CASE OF CROPS INTENDED FOR EXPORT, CONFIRM WITHHOLDING PERIODS WITH THE RELEVANT EXPORT ORGANISATION. IF THIS PRODUCT IS USED ACCORDING TO THE RECOMMENDATIONS ON THIS LABEL, LOCAL MRL VALUES WILL NOT BE EXCEEDED. HOWEVER, UNIVERSAL CROP PROTECTION (PTY) LTD. CANNOT ACCEPT RESPONSIBILITY FOR EXPORTED CROPS EXCEEDING THE IMPORT TOLERANCES OF OTHER COUNTRIES.

- Handle with care.
- Harmful if swallowed, inhaled or absorbed through the skin.
- Irritating to skin and eyes.
- Toxic to fish and aquatic life.
- Store in a cool, dry, well-ventilated place in the original container, tightly closed and secured.
- Avoid storage temperatures below 10°C and above 35°C.
- Store away from food, feeds, seed, fertilizers and other non-agricultural chemicals.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area within 1 day after application 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 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

- Avoid inhalation of the spray mist.
- Avoid contact with skin and eyes.
- Wear a face shield and rubber gloves when handling the concentrate, during mixing and application.
- Wash contaminated clothing after use.
- Wash with soap and water after use or after accidental skin contact.
- In case of eye contact, immediately flush the eyes with clean, cold water for 15 to 20 minutes, holding the eyelid(s) open. If irritation persists, seek medical advice.
- Do not eat, drink or smoke whilst mixing and applying, or before washing hands and face and change of clothing.
- Do not spray allow drift of spray mist 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 crops, 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 one 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.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING

There are no specific signs and symptoms for poisoning with the product. In view of the toxicity induced in experimental animals on repeated exposure with the active ingredient of this product, proper care should be taken during occupational use to avoid inhalation/ingestion of fumes or spray particles and skin contact.

FIRST AID TREATMENT

- Remove the patient from the source of poisoning to a well-ventilated area and keep him/her calm and at rest. Immediately call a physician.
- **Skin contact:** Immediately remove contaminated clothing, shoes and leather goods. Rinse skin gently and thoroughly with plenty of running water and non-abrasive soap. Do not rub the skin. Seek medical attention if necessary.
- **Eye contact:** Immediately flush the eyes with gently flowing clean water for 20 minutes, lifting the upper and lower eyelid(s). Seek immediate medical attention.
- **Inhalation:** If breathing has stopped, perform artificial respiration immediately. If breathing is laboured administer oxygen. Only medical personnel should administer oxygen. Keep person calm and reassured. Treat symptomatically and supportively as and when required. Obtain immediate medical attention.
- **Ingestion:** Provided the patient is conscious, rinse mouth with water. Give a slurry of activated charcoal in water to drink. **Do not induce vomiting due to the solvent.** If vomiting occurs spontaneously keep his/her head lower than the hips, to prevent aspiration. Do not give anything by mouth to an unconscious person. **Obtain medical attention immediately.**

NOTE TO PHYSICIAN

There is no specific antidote available. Treat symptomatically. The product contains a solvent that may cause chemical pneumonitis if aspirated into the lungs. Observe for delayed onset of pulmonary injury. If ingested, perform gastric lavage and administer activated charcoal.

RESISTANCE WARNING

QUANTUM 275 EC is a group code 3 fungicide. Any fungus population may contain individuals naturally resistant to **QUANTUM 275 EC** and any other group code 3 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **QUANTUM 275 EC** or any other group code 3 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 code M, 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.

USE RESTRICTIONS

- For more effective control of Scab it is recommended to always apply **QUANTUM 275 EC** in combination with a non-related broad-spectrum fungicide. Refer to "**APPLICATION RATES**".
- Above-mentioned combinations are recommended for a preventative spray programme in areas where, and also during periods when, conditions favour the development of Scab.
- It is recommended to change to a preventative programme with contact fungicides during December.

DIRECTIONS FOR USE: Only use as indicated

Compatibility:

- The compatibility of **QUANTUM 275 EC** with other products may vary. A physical compatibility test must always be performed prior to application of such a tank mixture.
- When **QUANTUM 275 EC** is used in combination with any other agricultural remedy, all **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label, must be adhered to.

Mixing instructions:

- Add the required quantity of **QUANTUM 275 EC** to a sufficient volume of water in the spray tank to obtain a homogeneous emulsion.
- Agitate well and then add the remaining water volume to the spray tank.
- Ensure continuous agitation during mixing and application.
- If a wettable powder is to be sprayed in mixture with the **QUANTUM 275 EC**, the wettable powder must be added first to the spray tank (pre-creamed), ensuring agitation, where after the **QUANTUM 275 EC** is added and the spray tank filled to the final volume with water.
- For mistblowers and air assisted sprayers: Fill the spray tank up to one third of the required volume with water.
- Add the required quantity of product to the spray tank while agitating the water.
- Ensure continuous agitation during mixing and application.
- If a tank mixture is made with another product; wettable powders, granules or suspension concentrate formulations; it must be added to the water prior to adding **QUANTUM 275 EC**. In the case of other liquid formulations, the **QUANTUM 275 EC** can be added first to the spray tank and after it has dispersed completely can the other liquid formulations be added.
- Fill the spray tank to its final volume with water, whilst continuously agitating.

APPLICATION INSTRUCTIONS**Ground application:**

- **QUANTUM 275 EC** 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 dosage is distributed evenly over the target area.

APPLICATION RATES

Crop / Disease	Dosage rate	Remarks
Apples Powdery mildew (<i>Podosphaera leucotricha</i>)	10 ml / 100 l water	Apply QUANTUM 275 EC as part of a spray programme as a full cover application to the point of run-off or in concentrated form (4X). Start spraying at the pink stage and apply at 10- to 14-day intervals as a preventative programme. Always ensure complete coverage.
Apples Scab (<i>Venturia inaequalis</i>) Pears Scab (<i>V. pirina</i>)	10 ml / 100 l water PLUS 50 % to 75 % of recommended dosage of a registered broad spectrum fungicide (* refer " Remarks " in next column)	Apply QUANTUM 275 EC as part of a spray programme as a full cover application to the point of run-off or in concentrated form (4X). Start application at green tip stage. Repeat at weekly intervals as a preventative programme from pre-blossom stage until end of blossom stage. Apply every fortnight during post-blossom period. Always ensure complete coverage. (* E.g. 60 g to 70 g Mancozeb 800 WP or 100 g Captab WP or 100 ml Captab SC per 100 litres water).

Crop / Disease	Dosage rate	Remarks								
<u>Apples & Pears</u>										
Application:										
i) Ensure that the correct quantity of fungicide is applied per hectare. To obtain this, the product must be applied according to the Tree-Row-Volume (TRV) equation (see below).										
ii) <u>Post-infection applications (Scab):</u> The combinations of QUANTUM 275 EC and broad-spectrum fungicides can be used curatively to complement a preventative contact fungicide spray programme. Curative treatments are recommended only where sufficient and reliable disease prediction systems are available. Treatment should commence not later than 4 days after the start of the infection period.										
iii) <u>High volume:</u> The volume of water required per hectare must be calculated according to the Tree-Row-Volume (TRV) equation:										
Litres per hectare = $\frac{\text{Tree height} \times \text{Tree diameter} \times 937}{\text{Row width}}$										
The TRV equation calculates the volume of water required when the trees are in full leaf cover. The water volume required per hectare can be used to calculate the quantity of QUANTUM 275 EC required per hectare at the various growth stages of the trees during the season. Also refer to the table below.										
Recommended water required per hectare during different growth stages of trees.										
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Stage of growth</th> <th>% High Volume water required per hectare</th> </tr> </thead> <tbody> <tr> <td>Green tip to ± 30 % blossom</td> <td>60 %</td> </tr> <tr> <td>± Full blossom to ± middle November</td> <td>80 %</td> </tr> <tr> <td>From ± beginning December</td> <td>100 %</td> </tr> </tbody> </table>			Stage of growth	% High Volume water required per hectare	Green tip to ± 30 % blossom	60 %	± Full blossom to ± middle November	80 %	From ± beginning December	100 %
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iv) <u>Low volume:</u> When applying QUANTUM 275 EC as a low volume spray, ensure that the correct quantity of product, as calculated for a High Volume requirement, will be applied per hectare.										