


DIVINO[®] 250 EC

Reg. no. L9343 Act/Wet 36 of/van 1947
N-AR 1402

**READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

GROUP	3	FUNGICIDE
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An emulsifiable concentrate systemic fungicide for the control of diseases in various crops as listed.	'n Emulgeerbare konsentraat sistemiese swamdoder vir die beheer van siektes in verskeie gewasse soos gelys.
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 <p>DANGER</p>	<p>Hazard statements May be fatal if swallowed and enters airways. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.</p> <p>Precautionary statements Wash face, hands and any exposed skin thoroughly after handling. Do not touch eyes. Wear protective gloves/protective clothing/eye protection/face protection.</p>
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ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

Difenoconazole (triazole)..... 250 g/LDifenokonasool (triasool)

NET VOLUME/NETTO VOLUME

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REGISTRATION HOLDER/REGISTRASIEHOUER

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UN no.: 3082

In case of poisoning, call the following numbers:

Griffon Poison Information Centre: +27 82 446 8946 or
Tygerberg Poison Information Centre: +27 861 555 777

Emergency number:

SPILL TECH: +27 86 100 6366 or +27 83 253 6618

Batch number
Date of Manufacture
Expiry date

Lotnommer
Datum van Vervaardiging
Vervaldatum

WARNINGS

- May be fatal if swallowed and enters airways.
- Causes serious eye damage.
- Very toxic to aquatic life with long lasting effects.

Withholding periods (Minimum number of days between last application and harvest or grazing):

Apples and pears	14 days
Beans	14 days
Citrus	90 days
Groundnut (fodder)	21 days
Grapes	28 days
Maize	14 days
Maize (fodder)	No feeding
Potatoes	14 days
Soybeans	18 days
Tomatoes	7 days

Export crops: The local MRLs will not be exceeded if **DIVINO® 250 EC** is used according to the label instructions. However, ADAMA South Africa (Pty.) Ltd. cannot be held responsible if exports MRLs are exceeded. The local export marketing bodies must be consulted regarding application timing, withholding periods and specific tolerances of countries where produce will be exported to.

- Handle with care.
- Store in a cool, dry place away from away from food, feedstuffs, seed, and fertilizers.
- **Re-entry:** Do not enter treated area until spray deposit has dried.
- **Aerial application:** Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over water or areas not under treatment or allow the spray drift to contaminate these areas.

Although this remedy has been extensively tested under a variety of conditions the registration holder does not warrant that it will be effective under all conditions. The activity and efficacy of the product 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, and the environment or harm to

man or animal, or for lack of performance of the remedy concerned due to the 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

- If medical advice is needed, have product container or label at hand.
 - Keep out of reach of children.
 - Read label before use.
 - Avoid release to the environment.
 - Wash face, hands and any exposed skin thoroughly after handling. Do not touch eyes.
 - Wear protective gloves/protective clothing/eye protection/face protection.
 - IF SWALLOWED: Get emergency medical help immediately. Do NOT induce vomiting.
 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present, and easy to do. Continue rinsing. Get medical help.
 - Collect spillage.
 - Store locked up.
 - Dispose of contents/ container to an approved waste disposal plant.
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- Avoid inhaling the spray mist.
 - Avoid contact with skin and eyes.
 - Remove contaminated clothing and wash daily.
 - Do not eat, drink or smoke while mixing or applying this product or before hands and face have been washed.
 - Prevent spray drift onto other crops, grazing, rivers, dams or areas not under treatment.
 - Invert the empty container over the mixing tank or spray tank and drain for at least 30 seconds after the flow has been reduced to a drip. Thereafter rinse the empty container at least three times with a volume of water equal to at least 10% of that of the container. Add the rinsate into the spray tank.
 - Destroy empty container by perforation and flattening and NEVER use for any other purpose.
 - Clean the applicator thoroughly after use and dispose of wash water where it will not contaminate crops, rivers or dams.
 - Avoid contamination of food, feedstuffs, drinking water and eating utensils.

RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Solvent naphtha (petroleum), heavy arom., <1% naphthalene	30–60%	64742-94-5
Difenoconazole	10–30%	119446-68-3
C11 Alcohol ethoxylate	<10%	34398-01-1
Calcium dodecylbenzenesulphonate	<10%	26264-06-2
2-Ethylhexane-1-ol	<10%	104-76-7

FIRST AID

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider: Pay attention to self-protection.

Take the container label or product name with you when seeking medical attention.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention immediately if symptoms occur.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Ingestion: If conscious, rinse mouth thoroughly with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomit, rinse mouth. Get medical attention immediately if symptoms occur.

TOXICOLOGICAL INFORMATION

Antidotes

No specific antidote. Treat symptomatically.

Symptoms of human poisoning

None known.

RESISTANCE WARNING

For resistance management **DIVINO® 250 EC** has been classified as a group code 3 fungicide. Any fungus population may contain individuals naturally resistant to **DIVINO® 250 EC** and 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 **DIVINO® 250 EC** or any other group code 3 fungicides. 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 other fungicide group codes, refer to applicable individual product labels.
 - Integrate the control methods (chemical, cultural, biological) into fungicide control programmes.
- For specific information on resistance management contact the registration holder of this product.

MODE OF ACTION

3: Sterol biosynthesis in membranes: Demethylation inhibitor (DMI).

USE RESTRICTIONS AND IMPORTANT INFORMATION

- Do not apply **DIVINO® 250 EC** to crops under any form of stress as uptake and effectiveness of **DIVINO® 250 EC** might be reduced.
- Do not apply **DIVINO® 250 EC** or related products continuously over long periods as this could result in resistance-build up.
- Unless specified, **DIVINO® 250 EC** should only be used in a preventative spray programme.
- **DIVINO® 250 EC** is local systemic fungicide.
- Maize applications: The risk of Arrested Ear Syndrome (Blunt Ear Syndrome) increases dramatically when any applications (crop protection products, fertilisers, foliar feeds, adjuvants, etc) are made between the V10 – VT (10th leaf collar – cob tassel emergence) growth stages of maize plants. Applications between the V10 – VT growth stages of the crop must be avoided as far as possible.

DIRECTIONS FOR USE

Use only as indicated.

NOTICE TO THE USER: This agricultural remedy is to be used only in according to the directions of this label. It is an offense under the Act to use this product inconsistent with the directions on the label.

COMPATIBILITY

The compatibility of **DIVINO® 250 EC** with other products can be influenced by the formulation of those products and the quality of the dilution water. As formulations of products can change without the knowledge of ADAMA South Africa (Pty.) Ltd. and the quality of water can differ from farm to farm, a physical compatibility test should always be carried out prior to application.

MIXING INSTRUCTIONS

Close container soon after pouring out **DIVINO® 250 EC**. Half fill the spray tank with water. Add the required volume of **DIVINO® 250 EC** to a small amount of water and mix thoroughly before it is added to the spray tank while agitating. When tank mixing **DIVINO® 250 EC** with other products such as **MERPAN® 50 SC** or Mancozeb® 800 WP, these products should first be mixed or creamed with a little water and added to the spray tank first. Add water to the tank just below the required capacity and add the pre-mixed **DIVINO® 250 EC** while agitating continuously. Fill the tank with water. Do not

allow tank mixture to settle. Refer to the labels of the products which will be tank mixed with **DIVINO® 250 EC** and adhere to the label instructions.

APPLICATION

Ground application

DIVINO® 250 EC can be applied by any conventional high-volume sprayer in good working order, which has been correctly calibrated, and fitted with an efficient agitation system. The boom must be fitted with hollow cone nozzles which are able to deliver medium to fine droplets. The applicator must be calibrated correctly to deliver an even distribution of the spray-mixture over the target area. Use spray volumes of 300-500 L/ha.

Aerial application

Aerial application of **DIVINO® 250 EC** may only be done by a registered Aerial Application

Operator using a correctly calibrated, registered aircraft according to the instructions of SANS 10118 (The aerial application of 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 L/ha 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: 25–35 droplets/cm² must be recovered at the target area.
- Droplet size: A droplet spectrum with a VMD of 280–300 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 3–4 m above the target. Do not spray when aircraft is diving, climbing or when banking.
- Use suitable atomizing 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 atomizers within the inner 60–75% 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/h.
- 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 TARGET	DOSAGE RATE	REMARKS
Apples and Pears Scab <i>(Venturia inaequalis)</i> <i>(Venturia pirina)</i>	<p>Starting from green tip and throughout pre-blossom stage</p> 6 ml of DIVINO® 250 EC + 100 ml of MERPAN® 50 SC or 70 g of mancozeb 800 g/kg WP per 100 L water	Apply as full cover spray to point of run-off. Repeat sprays <u>every 7 days</u> .
	<p>During post-blossom stage</p> 6 ml of DIVINO® 250 EC + 100 ml of MERPAN® 50 SC or 70 g of mancozeb 800 g/kg WP per 100 L water	Apply as full cover spray to point of run-off. Repeat sprays <u>every 10-14 days</u> .
<p>Apples and Pears</p> <p>Use DIVINO® 250 EC in a preventative spray programme. Apply DIVINO® 250 EC during periods and in areas which favour disease development. It is recommended to change to <u>contact</u> protective spray programme during December. MERPAN® 50 SC or mancozeb may be replaced with other registered broad-spectrum fungicides.</p> <p>In cases where a contact protective spray programme is used, apply DIVINO® 250 EC curatively at 10 ml DIVINO® 250 EC + 100 ml MERPAN® 50 SC or 70 g of mancozeb 800 g/kg WP per 100 litres water, <u>within four days</u> of start of an infection period.</p> <p>It is recommended to only use curative sprays where reliable and adequate disease prediction systems are followed.</p> <p>High volume</p> <p>The water volume required per hectare when trees are in full leaf is determined by using the Tree Row Volume (TRV) formula given below:</p> $L/ha = \frac{\text{Tree height} \times \text{Tree diameter} \times 937}{\text{Row width}}$		

This water volume is then used to determine the quantity of **DIVINO® 250 EC** to be used per hectare. Depending on growth stage of the tree, the following water volumes are recommended:

Growth stage	Water volume/ha
Starting from green tip to around 30 % blossom.....	60 % of high volume
From around full blossom to around mid-November.....	80 % of high volume
From around beginning of December.....	100 % of high volume

Low Volume (4X)

Apply the recommended dosage rate of **DIVINO® 250 EC** per hectare in cases where a low volume spray is used.

CROP AND TARGET	DOSAGE RATE	REMARKS
<p>Beans Brown rust (<i>Uromyces appendiculatus</i>)</p>	<p>Ground application Option 1 250 ml/ha at 10–14 days interval</p> <p style="text-align: center;">OR</p> <p>Option 2 (for dry beans) 325 ml/ha at 18–21 days interval</p> <p>Aerial application (for dry beans) 300 ml/ha at 10–14 days interval</p>	<p>Start spraying at first signs of the disease or at the beginning of flowering or earlier on very susceptible cultivars. DIVINO® 250 EC should be applied in a preventative programme. Apply DIVINO® 250 EC to actively growing plants and continue with the sprays until plants start senescing. Add a wetting agent such as MCW EOS® oil.</p>

CROP AND TARGET	DOSAGE RATE	REMARKS
Citrus (Navels, Mandarin and Clementine) Navel-end-rot/Black-core-rot <i>(Alternaria citri)</i> Mandarin brown rot <i>(Alternaria alternata)</i>	40-60 ml/100 L water	Apply two <u>medium cover sprays</u> of DIVINO® 250 EC in spray volumes of \pm 20 L/tree (depending on size of tree). Commence spraying at 50% petal fall and repeat spray at 100% petal fall.
	40-60 ml of DIVINO® 250 EC + 160 g of mancozeb 800 g/kg WP per 100 L water	On orchards with a history of <i>Alternaria</i> , it is recommended to apply the higher rate of DIVINO® 250 EC . When using DIVINO® 250 EC on citrus observe the following: * Limit applications to 3 L/ha. * No additional sprays after 100% petal drop. * For season long control of brown spot (<i>Alternaria alternata</i>), two applications are required.
Groundnuts Early leaf spot <i>(Cercospora arachidicola)</i> Late leaf spot <i>(Cercospora personatum)</i> Web blotch <i>(Phoma arachidicola)</i> Rust <i>(Puccinia arachidis)</i>	Option 1: Ground application every 10-14 days First application at 300 ml/ha, and following applications at 200 ml/ha every 10-14 days OR Option 2: Ground application every 18-21 days 325 ml/ha	Start spraying DIVINO® 250 EC at first signs of the disease. Add a wetting agent such as MCW EOS® oil. Spray programme should continue until plants start senescing.
	Option 1: Irrigation application every 10-14 days 300 ml/ha OR Option 2: Irrigation application every 18-21 days 400 ml/ha	

CROP AND TARGET	DOSAGE RATE	REMARKS
<p>Groundnuts continued</p>	<p>Aerial application 350 ml/ha every 10-14 days on <u>irrigated</u> crop AND 350 ml/ha every 14-21 days on <u>dry land</u> crop</p>	<p>Aerial application should be used as an emergence measure. It is only recommended where conditions do not favour ground application. Spray programme should continue until plants start senescing.</p>
<p>Maize and Sweet corn Grey leaf spot (<i>Cercospora zeae-maydis</i>)</p>	<p>Option 1: DIVINO® 250 EC ground and aerial application 300 ml/ha</p>	<p>Start applications when the disease appears on the bottom but before appearance of symptoms on the three leaves just below the cob and before symptoms are more than 2% of the leaf area. If necessary, repeat sprays 14 to 21 days later.</p> <p>Maize applications: The risk of Arrested Ear Syndrome (Blunt Ear Syndrome) increases dramatically when any applications (crop protection products, fertilisers, foliar feeds, adjuvants, etc) are made between the V10 – VT (10th leaf collar – cob tassel emergence) growth stages of maize plants. Applications between the V10 – VT growth stages of the crop must be avoided as far as possible.</p>
	<p>Option 2: MIRADOR® 250 SC (single spray) followed by DIVINO® 250 EC (single spray) MIRADOR® 250 SC: 300 ml/ha DIVINO® 250 EC: 300 ml/ha</p>	<p>With medium or long growing cultivars where the first application was done with MIRADOR® 250 SC within three weeks of pollination, a follow-up application with DIVINO® 250 EC should be done 4–5 weeks later. The above mentioned rate of MIRADOR® 250 SC will also control rust (<i>Puccinia sorghi</i>) if present.</p> <p>The risk of Arrested Ear Syndrome (Blunt Ear Syndrome) increases dramatically when any applications (crop protection products, fertilisers, foliar feeds, adjuvants, etc) are made between the V10 – VT (10th leaf collar – cob tassel emergence) growth stages of maize plants. Applications between the V10 – VT growth stages of the crop must be avoided as far as possible.</p>

CROP AND TARGET	DOSAGE RATE	REMARKS
<p>Maize and Sweet corn continued Grey leaf spot (<i>Cercospora zeaemaydis</i>)</p> <p>Northern leaf blight (<i>Helminthosporium turcicum</i>)</p>	<p>Option 3: MIRADOR® 250 SC (two sprays) followed by DIVINO® 250 EC (single spray) MIRADOR® 250 SC: 300 ml/ha DIVINO® 250 EC: 300 ml/ha</p> <p>Ground and aerial application 300 ml/ha</p>	<p>Where initial application was applied at a very early stage, a third application might be necessary. In such cases the first two applications are made with MIRADOR® 250 SC at intervals of 4–5 weeks with the DIVINO® 250 EC application being made 4–5 weeks after the second application. The above mentioned rates of MIRADOR® 250 SC will also control rust (<i>Puccinia sorghi</i>) if present.</p> <p>The risk of Arrested Ear Syndrome (Blunt Ear Syndrome) increases dramatically when any applications (crop protection products, fertilisers, foliar feeds, adjuvants, etc) are made between the V10 – VT (10th leaf collar – cob tassel emergence) growth stages of maize plants. Applications between the V10 – VT growth stages of the crop must be avoided as far as possible</p> <p>Start applications at first signs of the disease before the disease covers more than 2% of the leaf area. If necessary, repeat sprays every 14 to 21 days.</p> <p>The risk of Arrested Ear Syndrome (Blunt Ear Syndrome) increases dramatically when any applications (crop protection products, fertilisers, foliar feeds, adjuvants, etc) are made between the V10 – VT (10th leaf collar – cob tassel emergence) growth stages of maize plants. Applications between the V10 – VT growth stages of the crop must be avoided as far as possible</p>
<p>Potatoes Early blight (<i>Alternaria solani</i>)</p>	<p>Ground application 175 ml/ha every <u>seven</u> days OR 250 ml/ha every <u>ten</u> days OR 350 ml/ha every <u>fourteen</u> days</p>	<p>Start applications at the beginning of flowering. Sprays can be applied earlier, should the disease start to develop. Add a wetting agent such as MCW EOS® oil. Spray programme should continue until plants start senescing or at the end of petal fall.</p>

CROP AND TARGET	DOSAGE RATE	REMARKS
<p>Potatoes continued</p>	<p>Aerial application 175 ml/ha every <u>seven</u> days OR 250 ml/ha every <u>ten</u> days OR 350 ml/ha every <u>fourteen</u> days</p>	
<p>Tomatoes Early blight (<i>Alternaria solani</i>)</p>	<p>Low volume application (mist blowers) 350 ml/ha High volume application 35 ml/100 L water (500–2000 L spray mixture per hectare)</p>	<p>Start sprays during flowering period (\pm 8 weeks after trans-planting) and continue up to picking stage (16-20 weeks after transplanting). Sprays can be applied earlier if disease starts to develop. Apply a maximum of 8 sprays per season. A recommended broad-spectrum fungicide should be applied before the flowering stage and after the DIVINO[®] 250 EC sprays. DIVINO[®] 250 EC <u>does not</u> control late blight (<i>Phytophthora infestans</i>).</p> <p><u>In areas with low early blight pressure and no other disease problems; apply DIVINO[®] 250 EC every 14 days.</u></p> <p><u>In areas with moderate and high early blight pressure and other disease problems; alternate between DIVINO[®] 250 EC and a broad-spectrum fungicide such as chlorothalonil, copper or mancozeb every 7 days.</u></p> <p>Obtain thorough coverage of the whole plant when applying the spray mixture(s).</p>
<p>Soybeans Soybean rust (<i>Phakopsora pachyrhizi</i>)</p>	<p>325 ml/ha</p>	<p>Start sprays at first signs of the disease. Repeat applications 14 to 21 days later. <u>One application is enough if the disease occurs late in the growing season. More than one application may be required if the disease occurs during flowering or during early pod-filling period.</u> Shorter spray intervals should be used under conditions which favour disease development (that is high humidity and temperatures from 15 - 28 °C). Obtain thorough coverage of</p>

CROP AND TARGET	DOSAGE RATE	REMARKS
		the whole plant when applying the spray mixture.
<p>Table and Wine grapes Powdery mildew (<i>Oidium tuckerii</i>)</p>	<p>12 ml/100 L water Spray volume from 500–1000 L/ha depending on growth stage.</p>	<p>Start sprays when the shoots are 10-25 cm long. Repeat applications every 14 days. Apply as full cover spray to run-off point. A <u>maximum of 4 sprays</u> is allowed per season, with the last spray being applied no later than bunch closure.</p> <p>During spraying, obtain thorough coverage of the whole plant.</p> <p><u>Do not go beyond the stipulated spray interval.</u></p> <p>During the season, <u>two to three supplementary</u> sprays of sulphur are recommended in the DIVINO® 250 EC application programme.</p>

MERPAN®50 SC (Reg No. L 5511) is the registered product of ADAMA South Africa (Pty) Ltd.

MCW EOS (Reg No. L 7954) is the registered product of ADAMA South Africa (Pty) Ltd.