



ETHOS 275 EC

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY

VERWYS NA BESONDERHEDE SOOS OP HOUER / SAK GEDRUK

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REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

ETHOS 275 EC

FUNGICIDE

Reg. No. L8740, Act/Wet No. 36 of/van 1947 1:12/08/2011

An emulsion concentrate, systemic fungicide for the control of diseases on crops as listed.

'n Emulsie konsentraat, sistemiese swamdoder vir die beheer van siektes op gewasse soos aangedui.

FRAC FUNGICIDE GROUP CODE	3;3	FRAC SWAMDODERGROEPKODE
ACTIVE INGREDIENTS / AKTIEWE BESTANDELE		
Difenoconazole (triazole)	150 g/ℓ	Difenokonasool (triasool)
Penconazole (triazole)	125 g/ℓ	Penkonasool (triasool)

Registration Holder / Registrasiehouer
Meridian Agrochemical Company (Pty.) Ltd. / (Edms.) Bpk.
 Reg. No. 2000/010819/07
 P.O. Box / Posbus 436, Modderfontein, 1645, South Africa / Suid-Afrika

1ℓ

UN Number: 1993

CAUTION / VERSIGTIG

WARNINGS

Allow the following number of days between last treatment and harvest or use as food or feed:

Apples and pears..... 14 days

IMPORTANT: The recommended withholding period between last application and harvest meets local residue requirements, but may not meet export requirements.

- Causes severe eye irritation and mild skin irritation.
- Toxic to fish and aquatic organisms.
- Store under lock and key in a cool place.
- Store away from food, feed, fertilizer and other agricultural products.
- 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.
- **Ethos 275 EC** has been tested on some of the most important commercial cultivars without any phyto toxic effects. More susceptible cultivars may be released in future which need to be tested; for this apply **Ethos 275 EC** to a limited test area before commercial applications are made.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be effective under all conditions. The activity 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 against the remedy, as well as by the method, time and accuracy of application. The registration holder furthermore 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 by 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

- Do not inhale fumes or spray mist.
- Avoid skin and eye contact by wearing protective clothing when mixing the product. Should eye contact occur, flush with plenty of water and get medical attention if necessary.
- Wash with soap and water after use and accidental skin contact as well as contaminated clothing.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing or applying the product or before washing hands and face.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator after use. Dispose of rinsate where it will not contaminate crops, grazing, rivers, dams and boreholes.
- Rinse empty container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsings to the contents of the spray tank before destroying the empty container by perforation and flattening.
- Do not use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

RESISTANCE WARNING

For resistance management, **Ethos 275 EC** is a group code 3 fungicide. Any disease population may contain individuals naturally resistant to **Ethos 275 EC** and other group code 3 fungicides. The resistant individuals can eventually dominate the disease population if these fungicides are used repeatedly. These resistant diseases may not be controlled by **Ethos 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 registered products from different fungicide group codes.
- A spray programme of mixtures or alternations with remedies with a different mode of action may delay resistant strain build-up.
- Integrate other control methods (chemical, cultural, biological) into disease control programmes.

Since the occurrence of resistance cannot be forecast, users are advised to keep treated crops under close observation. If treatment is not effective following the use of **Ethos 275 EC** as recommended, a resistant strain may be present. If a resistant strain is positively identified, consideration should be given to prompt use of a fungicide with a different mode of action for which there is no record of resistance to the relevant disease. For specific information on resistance management, contact the registration holder of this product.

USE RESTRICTIONS

- The uptake and activity of systemic compounds can be reduced when crops are under severe drought and/or nutrient stress conditions. Therefore, do not apply **Ethos 275 EC** under such conditions.
- Spray programmes with **Ethos 275 EC** should commence before disease/s become established.
- Do not apply **Ethos 275 EC** to any crop or situation not mentioned in this instruction leaflet.
- Only apply **Ethos 275 EC** using an accurate and safe application technique.
- If **Ethos 275 EC** is used in a tank mix with other recommended products, consideration should be given to the restrictions of those respective products.

DIRECTIONS FOR USE Use only as directed

MIXING INSTRUCTIONS

Half-fill the spray tank with suitable water, then add the required amount of **Ethos 275 EC** to the water in the tank while agitating. Fill the spray tank to the desired volume. Do not use brackish water. Should tank mixtures with other products be made, follow the respective manufacturers' label recommendations. Where wettable powder formulations are used in combination with **Ethos 275 EC**, a slurry should firstly be made with the powder and some water, mixed into the spray tank and finally the **Ethos 275 EC** can be added. **Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank.** Spraying equipment must be thoroughly flushed out at the end of the spraying operation.

COMPATIBILITY

The compatibility of **Ethos 275 EC** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used. As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made.

Ethos 275 EC is compatible with most agricultural remedies normally on apples and pears And captan, mancozeb 800 WP and **Alaris 700 WG** (registration pending).

APPLICATION METHODS

Ensure that the equipment is correctly calibrated and is checked regularly during application to ensure even and accurate application. **Ethos 275 EC** can be applied with conventional tractor boom sprayers in 300 – 500 l water/ha as well as high volume mist blowers. **Constant agitation throughout the spray operation is essential.** Only clean water should be used.

RECOMMENDATIONS

<p>Apples and pears</p> <p>Apples Powdery mildew (<i>Podosphaera leucotricha</i>) Scab (<i>Venturia inaequalis</i>)</p> <p>Pears Scab (<i>Venturia pirina</i>)</p>	<p>10 ml/100 l water plus the recommended rate of a suitable broad-spectrum fungicide such as mancozeb or captan.</p>	<p>For powdery mildew control commence application at the pink stage and apply in a preventive spray programme every 10 – 14 days. Ensure adequate spray coverage.</p> <p>For scab control commence application at the greentip stage and apply in a preventative spray programme every 7 days during the pre-blossom stages up to the end of blossoming and every 14 days during the post-blossom stages. Ensure adequate spray coverage. Do not exceed 6 applications per growing season.</p>
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- The **Ethos 275 EC** broad-spectrum fungicide combinations may be used curatively to supplement a preventative contact fungicide spray programme. Curative applications are only recommended when adequate and reliable disease prediction systems are available. Treatment should be made within 4 days of the onset of an infection period.

WAARSKUWINGS

Laat die volgende aantal dae toe tussen laaste toediening en oes of vir gebruik as voedsel of voer:

Appels en pere..... 14 dae

NOTA: Bogenoemde onthoudingsperiode is gebaseer op plaaslike vereistes vir residuvlakke en mag verskil van ander lande waarheen behandelde produkte moontlik uitgevoer mag word.

- Verorsaak ernstige oog irritasie en 'n ligte velirritasie.
- Giftig vir visse en waterorganismes.
- Berg agter slot-en-grendel in 'n koel plek.
- Stoor weg van voedsel, voer, kunsmis en ander landbouprodukte.
- Hou buite bereik van kinders, oningeligte persone en diere.
- **Herbetreding** – Moet nie behandelde gebiede betree alvorens die spuitneerslag droog is nie, tensy beskermende oorklere gedra word. .
- **ETHOS 275 EC** is sonder enige fitotoksiseitskade op die mees belangrikste kommersiële kultivars getoets. Meer sensitiewe kultivars mag in die toekoms vrygestel word wat eers getoets moet word; hiervoor moet **ETHOS 275 EC** eers op 'n klein toetsoppervlakte aangewend word, alvorens groot kommersiële bespuitings gemaak word.

Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie. Die werking en doeltreffendheid daarvan kan beïnvloed word deur faktore soos abnormale grond-, klimaats- en bergingstoestande, kwaliteit van die verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui word nie en die voorkoms van weerstand van die siekte teen die betrokke middel sowel as die tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei en die omgewing of nadelige invloede op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van versuim van die gebruiker om etiketaanwysings na te kom, of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in die geval van enige onsekerheid.

VOORSORGMAATREËLS

- Moet nie damp of spuitnewel inasem nie.
- Vermoed vel- en oogkontak, spoel deeglik met baie skoon water en verkry mediese aandag indien dit nodig is.
- Was met seep en water na gebruik en toevallige velkontak; so ook die besoedelde klere.
- Was besoedelde klere na gebruik.
- Moet nie eet, drink of rook tydens vermenging of toediening van die produk of voordat jy jou hande en gesig gewas het nie.
- Verhoed wegdrywing van spuitnewel op ander gewasse, weidings, riviere, damme en plekke wat nie behandel moet word nie.
- Maak toedieningsapparaat deeglik skoon na gebruik. Raak ontslae van uitspoelwater waar dit nie gewasse, weidings, riviere, damme en ander waterbronne kan besoedel nie.
- Spoel leë houer **drie keer** uit met 'n volume water gelykstaande aan minimum 10% van die houer. Gooi die spoelwater by die spuittenk voordat van die leë houer ontslae geraak word deur gate daarin te maak en plat te slaan.
- Moet nie die leë houer vir enige ander doel gebruik nie.
- Voorkom die besoedeling van voedsel, voer, drinkwater en eetgerei.

WEERSTANDSWAARSKUWING

Vir weerstandsbetuur is **ETHOS 275 EC** 'n groepkode 3 swamdoder. Enige siekte-populasie mag individuele insluit wat 'n natuurlike weerstand teen **ETHOS 275 EC** en ander groepkode 3 swamdoder het. Indien hierdie swamdoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die siekte-populasie oorheers. Hierdie weerstandbiedende swamme sal waarskynlik nie deur **ETHOS 275 EC** of enige ander groepkode 3 swamdoder beheer word nie

Om weerstand teen swamdoders te vertraag:

- Verhoed die eksklusiewe herhaaldelike gebruik van swamdoders in dieselfde swamdodergroepkode. Wissel af met, of gebruik tenkmengsels van, geregistreerde produkte van verskillende swamdodergroepkodes.
- 'n Spuitprogram van mengsels of met middels met 'n ander metode van werking kan die opbou van weerstandige stamme vertraag.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in siektebeheerprogramme.

Aangesien die voorkoms van weerstandbiedendheid moeilik is om te bepaal, is dit uiters belangrik om die behandelde gewasse noukeurig te ondersoek. Indien die behandeling nie effektief is met die gebruik van **ETHOS 275 EC** soos voorgeskryf nie, mag daar 'n weerstandbiedende-populasie (swamras) teenwoordig wees. Indien so 'n weerstandbiedende-populasie positief geïdentifiseer word, moet daar onmiddellik 'n swamdoderbespuiting wat 'n ander werkswyse het, waar daar geen bewys van weerstand teen die siekte voorkom, gedoen word. Vir spesifieke inligting oor weerstandsbetuur kontak die registrasiehouer van hierdie produk

GEBRUIKSBEPERKINGS

- Die opname en aktiwiteit van sistemiese swamdoders kan verlaag word wanneer gewasse onder erge vogstremming en/of aan voedingsgebrek ly. Wanneer die gewas dus in hierdie stremmingstoestand verkeer word 'n toediening van **ETHOS 275 EC** nie aanbeveel nie.
- Begin spuitprogramme met **ETHOS 275 EC** voordat die siekte(s) posvat.
- Moet nie **ETHOS 275 EC** op enige gewas of situasie toedien wat nie op hierdie etiket verskyn is nie.
- Dien **ETHOS 275 EC** slegs met akkurate en veilige toedieningsmetodes toe.
- As **ETHOS 275 EC** met ander middels in tenkmengsels gebruik word, moet die gebruiksaanwysings van hierdie betrokke produkte gevolg word.

GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui.

MENGINSTRUKSIES

Maak die spuittenk halfvol met geskikte water en voeg die benodigde hoeveelheid **ETHOS 275 EC** by terwyl water aanhoudend geroer word. Maak die spuittenk tot die aanbevole volume vol. Moet nie brak water gebruik nie. As tenkmengsels gemaak word met ander middels, moet die spesifieke vervaardiger se etiket gevolg word. Waar benatbare poeier formuleringe in kombinasie met **ETHOS 275 EC** gebruik word, moet eerstens 'n flodder van die poeier en 'n bietjie water gemaak word. Meng dit in die spuittenk en laastens moet die **ETHOS 275 EC** bygevoeg word. **Die tenkmengsel moet onmiddellik uitgespuit word en nie toegelaat word om in die spuittenk te staan nie.** Die spuittoerusting moet aan die einde van toediening deeglik uitgewas word.

VERENIGBAARHEID

Die verenigbaarheid van **ETHOS 275 EC** met ander produkte hang van die formulerings van die betrokke produkte asook die kwaliteit van die spuitwater af. Omdat formulerings van tyd tot tyd kan verander, word dit aanbeveel dat 'n fisiese verenigbaarheidstoets uitgevoer word voor die tenkmengsel gemaak word.

ETHOS 275 EC is verenigbaar met die meeste landboumiddels wat normaalweg op appels en pere gebruik word, asook **Captan**, **Mancozeb 800 WP** en **Alaris 700 WG** (registrasie hangende).

TOEDIENINGSMETODES

Maak seker dat die spuittoerusting korrek gekalibreer is en gereelde kontrole-toetse moet gedoen word om te verseker dat die toediening egalig en akkuraat is. **ETHOS 275 EC** kan toegedien word met 'n gewone trekkerbalkspuit met 300 – 500 l water/ha sowel as hoë-volume newelblasers. **Die mengsel moet aanhoudend en deeglik geroer word tydens toediening.** Gebruik slegs skoon water.

AANBEVELINGS

GEWAS EN SIEKTE	DOSIS	OPMERKINGS
Appels Poeieragtige meeldou (<i>Podosphaera leucotricha</i>) Skurf (<i>Venturia inaequalis</i>) Pere Skurf (<i>Venturia pirina</i>)	10 ml / 100 l water plus die aanbevole dosis van 'n breëspektrum kontakswamdoder soos Mancozeb of Captan.	Vir poeieragtige meeldou-beheer begin bespuitings vanaf die pienkstadium en dien toe in 'n voorkomende spuitprogram elke 10 – 14 dae. Verseker deeglike bedekking. Vir skurfbeheer begin bespuitings vanaf die groenpuntstadium en dien toe in 'n voorkomende spuitprogram elke 7 dae voor blom tot die einde van blom en elke 14 dae na blom. Verseker deeglike bedekking. Moet nie meer as 6 keer per groeiseisoen toedien nie.

- Die **ETHOS 275 EC** breëspektrum-swamdoderkombinasies, kan kuratief gebruik word om 'n voorkomende kontakswamdoder-spuitprogram aan te vul. Kuratiewe toedienings word slegs aanbeveel wanneer geskikte en betroubare siektevoorspellingsisteme beskikbaar is. Toediening moet binne 4 dae na die begin van 'n infeksieperiode plaasvind.