

EPIC 125 SC


BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY

GERBRUIKSAANWYSINGS INGESLUIT
Lotnummer
Datum van vervaardiging

VERWYS NA BESONDERHEDE
SOOS OP HOUER / SAK GEDRUK

EPIC 125 SC

FUNGICIDE



Reg. No. L7963, Act/Wet No. 36 of/van 1947 1: 29/08/2006

A systemic, suspension concentrate fungicide for the control of diseases on crops as listed.


'n Sistemiese, suspensiekonsentraat swamdoder vir die beheer van siektes op gewasse soos aangedui.

FRAC FUNGICIDE GROUP CODE	3	FRAC SWAMDODER GROEPKODE
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ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL		
Epoxiconazole (triazole)	125 g/ℓ	Epoksikonasool (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


20ℓ



UN Number: 3082



CAUTION / VERSIGTIG



WARNINGS

Allow the following number of days between last treatment and harvest or grazing:

Barley and wheat (not for grazing).....60 days

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

- Handle with care.
- Toxic to fish.
- 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.
- **EPIC 125 SC** has been tested on the most important commercial cultivars without any phytotoxic effects. More susceptible cultivars may be released in future which need to be tested; for this apply **EPIC 125 SC** to a limited test area before commercial applications are made.
- **Aerial application:** Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not apply over water bodies and ensure that spray drift will not contaminate areas not under treatment.

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.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- 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.

RESISTANCE WARNING

For resistance management, **EPIC 125 SC** is a group code 3 fungicide. Any fungus population may contain individuals naturally resistant to **EPIC 125 SC** and other group code 3 fungicides. The resistant individuals can eventually dominate the disease population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **EPIC 125 SC** 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.

For specific information on resistance management, contact the registration holder of this product.

USE RESTRICTIONS

- The uptake and activity of systemic fungicides can be reduced when crops are under severe drought and/or nutrient stress conditions. Therefore do not apply **EPIC 125 SC** under such conditions.
- Spray programmes with **EPIC 125 SC** should commence before disease/s become established.
- Do not apply **EPIC 125 SC** to any crop or situation not mentioned in this label.
- Only apply **EPIC 125 SC** using an accurate and safe application technique.
- If **EPIC 125 SC** 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 **EPIC 125 SC** 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. **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 **EPIC 125 SC** 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.

APPLICATION METHODS

Ensure that the equipment is correctly calibrated and is checked regularly during application to ensure even and accurate application. **EPIC 125 SC** can be applied with conventional tractor boom sprayers in 200 – 500 l water/ha. **Constant agitation throughout the spray operation is essential.** Only clean water should be used.

AERIAL APPLICATION

Aerial application may only be done by a registered aerial application operator using a registered and correctly calibrated aircraft according to the instructions of SANS 10118 (Aerial Application of Agricultural Remedies). It is important to 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;

Equipment

- Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage of the target area and will ensure the minimum loss of product through drift.

- The operator must use a nozzle set-up that will produce a droplet spectrum with the lowest possible relative span.
- All nozzles and atomisers should be positioned within the inner 75% of the wingspan to prevent droplets from entering the wingtip vortices.

Application Parameters

- A minimum volume of 30 l spray mixture per ha is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy nor be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended.
- A droplet coverage of 25 – 35 droplets per sq cm must be recovered at the target.
- A droplet spectrum with a VMD of 280 – 300 microns is recommended. Ensure that the production of fine droplets, with a VMD less than 150 microns, is restricted to a minimum.
- The height of the spray boom should be maintained at between 3 and 4 m above the target.
- Do not spray when the aircraft is in a climb, at the top of a turn or during a dive or when banking.
- Apply before the crop growth becomes too dense, which will interfere with overall plant coverage.

Meteorological Conditions

- The difference between the wet and dry bulb readings as determined by a whirling hygrometer, must not exceed 8 °C.
- Do not spray under turbulent, unstable conditions or during the heat of the day when rising thermals and downdraughts occur.
- Do not spray under temperature inversion conditions (spraying in or above the inversion layer).
- Do not spray when the wind speed exceeds 15 km per hour.

General

- Ensure that fields are accurately marked and 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.

RECOMMENDATIONS

CROP/DISEASE	APPLICATION RATE/ha	REMARKS
<p style="text-align: center;">Barley</p> <p>Leaf spot (<i>Rhynchosporium secalis</i>)</p> <p>Leaf rust (<i>Puccinia hordei</i>)</p> <p>Net blotch (<i>Pyrenophora teres</i>)</p>	<p>800 ml/ha ground and aerial application</p>	<p>Ground application: Apply in 200 – 400 l water/ha.</p> <p>Aerial application: Apply in 30 l water/ha.</p> <p>Spray as soon as first disease symptoms are noticed or in the period between the seven- and flag leaf stages. A single application should be sufficient for control.</p> <p>Spray as soon as first symptoms are noticed. Reapply approximately 4 weeks later if necessary.</p> <p><u>Net blotch</u>: Spray when first symptoms are noticed especially from the flag leaf stage to ear emergence stage. Under conditions of high disease pressure a second application 3 – 4 weeks later may be required.</p>

<p style="text-align: center;">Wheat</p> <p>Eye spot (<i>Pseudocercospora herpotrichoides</i>)</p> <p>Powdery mildew (<i>Erysiphe graminis</i>)</p> <p>Leaf rust (<i>Puccinia recondita</i>)</p> <p>Speckled leaf blotch and Glume blotch (<i>Septoria spp.</i>)</p>	<p>800 ml/ha ground and aerial application</p>	<p>Ground application: Apply in 200 – 400 l water/ha. Aerial application: Apply in 30 l water/ha.</p> <p><u>Eye spot</u>: Spray between the 5 and 7 leaf stage.</p> <p><u>Powdery mildew</u>: Spray as soon as first disease symptoms are noticed, but not later than the flag leaf stage. Repeat application should symptoms reappear.</p> <p><u>Leaf rust</u>: Spray as soon as first disease symptoms are noticed, but not later than the flag leaf stage. Repeat application should symptoms reappear.</p> <p><u>Speckled leaf blotch and Glume blotch</u>: Spray as soon as first disease symptoms are noticed, but not later than the flag leaf stage. Repeat application should symptoms reappear.</p>
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- **EPIC 125 SC** should be applied to wheat as soon as first disease symptoms are noticed and definitely before 5% infection level.
- A follow-up application 21 days after the initial application is recommended for wheat with a high yield potential, particularly in cases where the first application was made very early (first node stage) or to control other diseases which develop later in the season.

WAARSKUWINGS

Laat die volgende aantal dae toe tussen laaste toediening en oes of beweiding:

Gars en koring (nie vir weiding)..... 60 dae

BELANGRIK: Die aanbevole onthoudingsperiode tussen laaste toediening en oes voldoen aan die vereistes vir plaaslike residuvlakke maar mag dalk nie voldoen aan die vereistes vir uitvoer nie.

- Hanteer versigtig.
- Giftig vir visse.
- Berg onder slot en grendel op 'n koel plek.
- Berg weg van voedsel, voer, kunsmis en ander landbou produkte.
- 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.
- **EPIC 125 SC** is getoets op die belangrikste kommersiële kultivars sonder enige nadelige effekte. Meer vatbare kultivars kan in die toekoms aangeplant word. In hierdie instansies dien **EPIC 125 SC** toe op 'n beperkte toetsarea voordat groot areas behandel word.
- **Lugtoediening:** Stel al die inwoners in die onmiddellike omgewing van die gebied wat gespuit gaan word in kennis en reik nodige waarskuwings uit. Moenie oor water toedien of toelaat dat die spuitnewel wegdryf en gebiede besmet wat nie behandel word nie.

Hoewel 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 patoëen teen die betrokke middel sowel as die tyd, metode en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei en die omgewing of nadelige invloed 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.

VOORSORGMATREËLS

- Moet nie damp of spuitnewel inasem nie.
- Vermyn kontak met die vel en oë deur beskermende klere te dra wanneer die produk gemeng word. Indien oogkontak plaasvind, spoel uit met groot hoeveelhede water en verkry mediese advies indien nodig.
- Was met seep en koue water onmiddelik na gebruik en toevallige vel kontak sowel as besoedelde klere.
- Was besoedelde klere onmiddelik na gebruik.
- Moet nie eet, drink of rook tydens vermenging of toediening van die produk of voordat die hande en gesig gewas is nie.
- Vermyn wegdrywing van spuitnewel op ander gewasse, weiveld, riviere, damme en plekke wat nie behandel moet word nie.
- Maak toedieningsapparaat skoon na gebruik. Uitspoelwater moet nie gewasse, weiveld, riviere, damme en boorgate besoedel nie.
- Voorkom die besoedeling van voedsel, voer, drinkwater en eetgerei.
- Spoel leë houers drie keer uit met 'n volume water gelykstaande aan 'n minimum van 10% van die houer. Gooi die spoelwater by die inhoud van die spuitenk voordat die houer vernietig word deur gate in te slaan en plat te slaan.
- Vernietig die leë houer, moet vir geen ander doel gebruik nie.

WEERSTANDSWAARSKUWING

EPIC 125 SC is 'n groepkode 3 swamdoder. Enige populasie van 'n spesifieke siekte mag individue insluit wat 'n natuurlike weerstand teen **EPIC 125 SC**, of enige 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 **EPIC 125 SC** of enige ander groepkode 3 swamdoder beheer word nie.

Om weerstand teen swamdoders te vertraag

- Verminder die eksklusiewe herhaaldelike gebruik van swamdoders met dieselfde groeppkode. Wissel af met, of gebruik tenkmengsels van produkte in verskillende swamdodergroepkodes.
- Raadpleeg toepaslike individuele produketikette wanneer daar afgewissel word, of tenkmengsels gemaak word, met produkte in ander swamdodergroepkodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in swamdoder programme.

Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk.

GEBRUIKSBEPERKINGS

- Die opname en aktiwiteit van sistemiese swamdoders kan verlaag word wanneer gewasse onder ernstige vogstremming en/of voedingsgebrek ly. Wanneer die gewas dus in hierdie stremmingstoestand verkeer, word 'n toediening van **EPIC 125 SC** nie aanbeveel nie.
- Begin spuitprogramme met **EPIC 125 SC** voordat die siekte/s posvat.
- Moet nie **EPIC 125 SC** toedien op enige gewas of situasie wat nie op hierdie etiket verskyn nie.
- Dien **EPIC 125 SC** toe slegs met 'n akkurate en veilige toedienings metode.
- As **EPIC 125 SC** met ander middels in tenkmengsels gebruik word, moet die gebruiksaanwysings van die betrokke produk gevolg word.

GEBRUIKSAANWYSINGS Gebruik slegs soos aangedui

MENGINSTRUKSIES

Maak die spuittenk halfvol met geskikte water en voeg die benodigde hoeveelheid **EPIC 125 SC** by terwyl water aanhoudend geroer word. Maak die spuittenk tot die finale volume vol. Moet nie brak water gebruik nie. As tenkmengsels gemaak word met ander middels, moet die spesifieke vervaardiger se etiket gevolg 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 **EPIC 125 SC** met ander produkte hang af van die formulering van die betrokke produkte asook die kwaliteit van die spuitwater. Omdat formuleringe kan verander, word dit aanbeveel dat 'n fisiese verenigbaarheidstoets uitgevoer word voor die tenkmengsel gemaak word.

TOEDIENINGSMETODES

Maak seker dat die spuittoerusting reg gekalibreer is en gaan tydens die toediening na om seker te maak dat die toediening egalig en akkuraat is. **EPIC 125 SC** kan toegedien word met 'n gewone trekker balkspuit in 200 – 500 l water/ha. **Die mengsel moet aanhoudend en deeglik geroer word tydens toediening.** Slegs skoon water moet gebruik word.

LUGTOEDIENING

Lugtoediening mag slegs deur 'n geregistreerde lugbespuitingsoperateur met 'n geregistreerde en korrek gekalibreerde vliegtuig volgens die instruksies van SANS 10118 (Aerial Application of Agricultural Remedies) gedoen word. Dit is belangrik om te verseker dat die spuitmengsel eweredig oor die teiken area versprei word en dat die verlies van spuitmengsel tydens toediening tot 'n minimum beperk word. Die volgende kriteria moet nagekom word;

Toerusting

- Gebruik geskikte atomiseringsapparaat (hidroliese of roterende spuitkoppe) wat die vereiste druppelgrootte en bedekking van die teiken area sal produseer, maar wat die minste verlies van produk deur wegdrywing sal verseker.
- Die operateur moet 'n spuitstelsel gebruik wat 'n druppelspektrum met die kleinste moontlike relatiewe span sal produseer.
- Al die spuitkoppe en atomiseerders moet in die binneste 75% van die vlerkspan geplaas word om die beweging van druppels in die vlerkvorteks in te beperk

Toedieningsvereistes

- 'n Minimum volume van 30 l spuitmengsel per ha word aanbeveel. Aangesien hierdie produk nie teen 'n verlaagde spuitvolume getoets is nie, kan die registrasiehouer nie effektiwiteit waarborg of verantwoordelik gehou word vir enige nadelige effek indien hierdie produk teen 'n laer volume as hierbo aanbeveel, uit die lug toegedien word nie.
- 'n Druppelbedekking van 25 – 35 druppels per vk cm moet op die teikenarea herwin word.

- 'n Druppelspektrum met 'n VMD van 280 – 300 mikron word aanbeveel. Verseker dat die produksie van fyn druppels, die wat kleiner as 150 mikron is, tot 'n minimum beperk word.
- Die hoogte van die spuitbalk moet tussen 3 en 4 m bo die teiken gehandhaaf word.
- Moet nie spuit wanneer die vliegtuig aan die bopunt van 'n draai is of tydens 'n duik of terwyl dit uitklim of draai nie.
- Dien toe voordat die gewas te ryg word aangesien die druppelbedekking op die plante sal verminder word.

Meteorologiese Toestande

- Die verskil tussen die nat- en droëbollesing, soos met 'n swaai-higrometer bepaal, moet nie 8 °C oorskry nie.
- Moenie toedien tydens turbulente en onstabiele weerstoestande of gedurende die hitte van die dag wanneer stygende en dalende konveksie windbeweging plaasvind nie.
- Moenie toedien onder temperatuur inversie toestande (deur bo of binne die inversie laag te spuit) nie.
- Moenie spuit indien die windspoed 15 km per uur oorskry nie.

Algemeen

- Sorg dat die lande akkuraat gemerk is en die spuitoperateur presies weet watter lande gespuit moet word.
- Verkry versekering van die spuitoperateur dat aan die bogenoemde vereistes voldoen sal word.

AANBEVEELINGS

GEWAS/SIEKTE	DOSIS/ha	OPMERKINGS
<p>Gars</p> <p>Blaarvlek (<i>Rhynchosporium secalis</i>)</p> <p>Bruinroes (<i>Puccinia hordei</i>)</p> <p>Netvlek (<i>Pyrenophora teres</i>)</p>	<p>800 ml/ha grond- en lugtoediening</p>	<p>Grondtoediening: Dien toe in 200 - 400 l water/ha.</p> <p>Lugtoediening: Dien toe in 30 l water/ha.</p> <p>Dien toe sodra die eerste siekte simptome verskyn of in die periode tussen sewe- en vlagblaarstadium. 'n Enkele toediening behoort voldoende vir beheer te wees.</p> <p>Dien toe sodra die eerste siekte simptome verskyn. Herhaal toediening ongeveer 4 weke later indien simptome weer verskyn.</p> <p><u>Netvlek</u>: Dien toe sodra die eerste siekte simptome verskyn veral vanaf vlagblaar tot aarverskyningsstadium. Onder toestande van hoë siektedruk mag 'n tweede toediening 3-4 weke later nodig wees.</p>
<p>Koring</p> <p>Oogvlek (<i>Pseudocercospora herpotrichoides</i>)</p> <p>Poeieragtige skimmel (<i>Erysiphe graminis</i>)</p> <p>Bruinroes (<i>Puccinia recondita</i>)</p> <p>Vaalblaar en Bruinaarsiekte (<i>Septoria spp.</i>)</p>	<p>800 ml/ha grond- en lugtoediening</p>	<p>Grondtoediening: Dien toe in 200 – 400 l water/ha.</p> <p>Lugtoediening: Dien toe in 30 l water/ha.</p> <p><u>Oogvlek</u>: Dien toe tussen die 5-blaar en 7-blaarstadium.</p> <p><u>Poeieragtige skimmel</u>: Dien toe sodra die eerste siekte simptome verskyn, maar nie later as die vlagblaarstadium nie. Herhaal toediening indien simptome weer verskyn.</p> <p><u>Bruinroes</u>: Dien toe sodra die eerste siekte simptome verskyn, maar nie later as die vlagblaarstadium nie. Herhaal toediening indien simptome weer verskyn.</p> <p><u>Vaalblaar en Bruinaarsiekte</u>: Dien toe vanaf die tweede node stadium maar nie later as aarverskyning nie.</p>

- **EPIC 125 SC** moet op koring toegedien word sodra die eerste siekte simptome verskyn en beslis voor die 5% infeksie vlak.

- 'n Opgvolgtoediening 21 dae na die eerste toediening word aanbeveel vir koring met 'n hoë oes potensiaal, veral in gevalle waar die eerste toediening vroeg (eerste node stadium) aangewend is, of waar ander siektes later in die seisoen ontwikkel.