

**BASF**  
We create chemistry

# Ceriox®

Reg. No. L9801; N-AR 2187

Act No. 36 of 1947

**READ ATTACHED PACKAGE OR LEAFLET BEFORE USE  
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

GROUP	3	7	11	FUNGICIDES
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**An emulsifiable concentrate fungicide with systemic and translaminar properties for the preventive control of diseases in barley and wheat as indicated.**

**'n Emulgeerbarekonsentraatswamdoder met sistemiese- en translaminêre eienskappe vir die voorkomende beheer van siektes soos aangedui op gars en koring.**

Harmful if swallowed or if inhaled.  
Causes mild skin irritation.  
Causes serious eye damage.  
Suspected of causing cancer.  
Suspected of damaging fertility. Suspected of damaging the unborn child.

May cause harm to breast-fed children.  
Very toxic to aquatic life with long lasting effects.  
Wear protective gloves/clothing/eye protection.  
Avoid contact during pregnancy/while nursing.

**Active ingredients / Aktiewe bestanddele:**

Fluxapyroxad (pyrazole-carboxamide).....41,6 g/l  
Pyraclostrobin (methoxy-carbamate).....66,6 g/l  
Epoxiconazole (triazole).....41,6 g/l

**Registered by:**

BASF South Africa (Pty) Ltd  
Co. Reg. No. 66/10235/07  
852 Sixteenth Road  
P.O. Box 2801  
Halfway House 1685  
+27 11 203 2400

**Geregistreeur deur:**

BASF Suid-Afrika (Edms) Bpk  
Mpy Reg. Nr 66/10235/07  
852 Sestiende Laan  
Posbus 2801  
Halfweghuis 1685  
+27 11 203 2400

**Batch No. & Date manufactured:** Refer to details printed on container  
**Lotnommer & Datum vervaardig:** Verwys na besonderhede gedruk op houer

**UN-No. / VN-Nr:** 3082

**EMERGENCY NUMBER / NOODNOMMER:** +27 82 446 8946



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## ENGLISH

### WARNINGS

#### Hazard Statements

- Harmful if swallowed or if inhaled.
- Causes mild skin irritation.
- Causes serious eye damage.
- Suspected of causing cancer.
- Suspected of damaging fertility. Suspected of damaging the unborn child.
- May cause harm to breast-fed children.
- Very toxic to aquatic life with long lasting effects.

### ALLOW THE FOLLOWING MINIMUM NUMBER OF DAYS, BETWEEN LAST APPLICATION AND HARVEST OR GRAZING:

Barley	60
Wheat	60

- Handle with care.
- Keep out of reach of children, uninformed persons and animals.
- Store away from food and feed.
- Re-entry: Do not enter treated field within two days after application, unless wearing protective clothing.
- Do not graze before harvesting.

**Although this remedy has been 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 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, the environment, harm to man or animal, or for lack of performance of the remedy concerned, due 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

#### Precautionary Statements

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use.
- Do not handle until all safety precautions have been read and understood.
- Wash contaminated body parts thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/clothing/eye protection.
- Obtain special instructions before use.
- Do not breathe dust/mist/vapours.
- Avoid contact during pregnancy/while nursing.
- Rinse mouth.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTRE or doctor/physician.
- Collect spillage.
- Store locked up.
- Dispose of contents/container to hazardous or special waste collection point.

- Wear rubber gloves and boots and face shield when handling concentrate and whilst applying.
- Do not eat, drink or smoke whilst mixing and applying or before washing hands and face.
- Prevent spray drift onto other crops, grazing, rivers and dams and under treatment.
- TRIPLE RINSE empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow to drain 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 10% of that of the container. Add the rinsings to the contents of the spray tank, before destroying the container in the prescribed manner.
- Clean applicator after use and do not contaminate crops, grazing, rivers and dams with wash water.
- Destroy empty container and never use for any other purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.

## RELEVANT SUBSTANCES

Hazardous ingredients According to UN GHS criteria	CAS number	Concentration (W/W)
pyraclostrobin (ISO); methyl N-[2-(1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl)phenyl] (N-methoxy)carbamate	175013-18-0	6,36 %
epoxiconazole (ISO); (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4- triazol-1-yl)methyl]oxirane	133855-98-8	3,97 %
1H-Pyrazole-4-carboxamide, 3-(difluoromethyl)-1-methyl-N-(3',4',5'-trifluoro[1,1'- biphenyl]-2-yl)-; Fluxapyroxad	907204-31-3	3,97 %
Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester, (2S)-	186817-80-1	< 35 %
Benzyl alcohol	100-51-6	< 25 %
Methyl-Oxirane, Blockpolymer with Oxirane, Monoisotridecyl ether	196823-11-7	< 20 %
Poly(oxy-1,2-ethanediyl), .alpha.-[tris(1-phenylethyl)phenyl]-.omega.-hydroxy-	99734-09-5	< 10 %
Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-, ammonium salt	119432-41-6	< 10 %
Dimethyl sulfoxide	67-68-5	< 5 %

## FIRST AID TREATMENT

Remove contaminated clothing.

<b>ON CONTACT WITH EYES:</b>	Immediately wash affected eyes for at least 15 minutes under running water, with eyelids held open. Consult an eye specialist.
<b>ON INGESTION:</b>	Immediately rinse mouth and then drink 200 – 300 ml water, seek medical attention.
<b>ON SKIN CONTACT:</b>	Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.
<b>IF INHALED:</b>	Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

**TREATMENT:** Treat according to symptoms (decontamination, vital functions), no known specific antidote.

## RESISTANCE WARNING

For resistance management, FRAC Group Codes 7, 11 and 3 apply to Ceriax®. Any fungal population may contain individuals naturally resistant to any of the active ingredients in Ceriax® and other Group Codes 7, 11 and 3 fungicides. The resistant individuals can eventually dominate the fungal population if such fungicides are used repeatedly and exclusively in programmes. These resistant fungi may not be controlled by Ceriax® or any other Group Codes 7, 11 and 3 fungicides.

To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same Fungicide Group Codes. Alternate with products from different Fungicide Group Codes.
- For alternation with products in other Fungicide Group Codes, refer to the 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, BASF SA (Pty) Ltd.

## DIRECTIONS FOR USE: USE ONLY AS DIRECTED

### General information:

Apart from the fungicidal activity of Ceriax®, it exhibits the potential to increase plant physiological effects beneficial to the crop. Research conducted locally has proven that the use of Ceriax® according to label recommendations can also increase yield, even in situations of low disease pressure.

**This product is not recommended for knapsack application**

### Compatibility:

When required to apply Ceriax® in combination with other crop protection products such as herbicides, insecticides and acaricides, it is recommended that the compatibility and safety of such mixtures with Ceriax® be tested on a small scale, before used as a spray mixture.

DO NOT use any additional wetters, spreaders or other adjuvants, as Ceriax® has already been formulated with optimised amounts of surfactants. The only exception is a flowable (50% strength), high quality ammonium sulphate, in regions where water quality is known to be poor.

### Mixing instructions:

Half fill the tank with clean water. Measure the required quantity of Ceriax® and pre-mix this with at least 10 l water. Add this mixture to the water in the spray tank, while agitating the mixture. Fill the spray tank with water, while maintaining agitation, to ensure thorough mixing of the spray mixture, before spraying commences. Maintain agitation during the whole spraying operation. Prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.

### Anti-resistance strategy:

To delay the development of resistance and maintain the efficacy of Ceriax® and related FRAC Group Codes 7, 11 and 3 fungicides against diseases of barley and wheat, the following guidelines must be adhered to:

- Do not reduce the dose rate below what is recommended on the label.
- When using other FRAC Group Codes 7, 11 and 3 fungicides in a programme with Ceriax®, ensure that restriction on the number of applications is maintained.
- Do not exceed two applications of Ceriax® per season.

All spray applications must be made with suitable equipment that is in good working order and correctly calibrated to give the desired coverage and crop canopy penetration for the particular method of application.

### Aerial application:

Aerial application of Ceriax® may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural 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 30–40 l per hectare 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 aurally at a lower volume rate than recommended above.

- **Droplet coverage:** 25 to 35 droplets per cm<sup>2</sup> must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 280 to 300 microns is recommended. Limit the production of fine droplets less than 150 microns (high drift and evaporation potential) to a minimum.
- **Flying height:** Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking
- Use suitable **atomising 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 atomisers within the inner 60 to 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:
  - reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
  - 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.

CROP	DISEASE	DOSAGE t/ha	DIRECTIONS FOR APPLICATION
BARLEY	Leaf scald ( <i>Rhynchosporium secalis</i> ) Net blotch ( <i>Pyrenophora teres</i> ) Leaf rust ( <i>Puccinia hordei</i> ) Powdery mildew ( <i>Erysiphe graminis</i> )	0,8	Apply preventively, or at the first signs of disease. Repeat with a second application 3 – 4 weeks later if conditions for disease development persist. In barley, the first application should ideally be made at the six leaf stage (emergence of the first node).  Apply in sufficient water to ensure coverage of the leaves and stems of the crop, using the following as a guideline:  <b>Ground application:</b> Apply in 200 – 250 ℓ water/ha. <b>Aerial application:</b> Apply in 30 – 40 ℓ water / ha  <b>Do not exceed two applications of Ceriax® per season.</b>
WHEAT	Speckled leaf blotch and Glume blotch ( <i>Septoria spp.</i> ) Brown rust/Leaf rust ( <i>Puccinia triticina</i> ) Yellow rust/Stripe rust ( <i>Puccinia striiformis</i> ) Stem rust ( <i>Puccinia graminis</i> ) Powdery mildew ( <i>Erysiphe graminis</i> )	0,8	Apply preventively, or at the first sign of infection. Do not make the first application later than flag leaf emergence. Repeat with a second application 3 – 4 weeks later if conditions for disease development persist.  Apply in sufficient water to ensure coverage of the leaves and stems of the crop, using the following as a guideline:  <b>Ground application:</b> Apply in 200 – 250 ℓ water/ha. <b>Aerial application:</b> Apply in 30 – 40 ℓ water / ha  <b>Do not exceed two applications of Ceriax® per season.</b>

### CONDITIONS OF SALE AND WARRANTY

The **Directions for Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of this product in a manner inconsistent with its labeling, all of which are beyond the control of BASF South Africa (Pty) Ltd. ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use**, subject to the inherent risks, referred to above.

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.**

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of the Sale and Warranty**, which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

**Ceriox**® is a registered trademark of BASF

## AFRIKAANS

### WAARSKUWINGS

#### Gevaarverklarings

- Skadelik indien ingesluk of ingeasem.
- Veroorzaak geringe velirritasie.
- Veroorzaak ernstige oogskade.
- Vermoede dat dit kanker veroorsaak.
- Vermoede dat dit vrugbaarheid of die ongebore kind beskadig.
- Mag skade aan borsgevoede kinders veroorsaak.
- Baie giftig vir waterlewendes organismes met langdurige gevolge.

#### LAAT DIE VOLGENDE MINIMUM AANTAL DAE TOE TUSSEN DIE LAASTE TOEDIENING EN OES OF BEWEIDING:

Gars	60
Koring	60

- Hanteer versigtig.
- Hou buite bereik van kinders, oningeligte persone en diere.
- Bêre weg van kos en voer.
- Herbetreding: Moenie behandelde gebied betree vir twee dae na bespuiting, tensy beskermende oorklere gedra word nie.
- Moenie bewei voor oes nie.

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

### VOORSORGMATREËLS

#### Voorsorgverklarings

- Indien mediese advies benodig word, hou die produkhouer of -etiket byderhand.
- Hou buite bereik van kinders.
- Lees sorgvuldig en volg alle instruksies.
- Moenie produk hanteer voordat alle voorsorgmaatreëls gelees en verstaan is nie.
- Was besoedelde liggaamsdele deeglik na hantering.
- Moet nie eet, drink of rook wanneer hierdie produk gebruik word nie.
- Gebruik slegs buitenshuis of in 'n goed geventileerde area.
- Dra beskermende handskoene en oogbeskerming of gesigbeskerming.
- Verkry spesiale instruksies voor gebruik.
- Vermoed inaseming van walm of dampe of spuitstof.
- Vermoed kontak tydens swangerskap en borsvoeding.
- Spoel mond uit.
- INDIEN INGEASEM: Neem slagoffer na vars lug en hou gemaklik vir asemhaling.
- INDIEN IN OË: Spoel versigtig met water vir etlike minute. Verwyder kontaklenze, indien aanwesig en maklik om te verwyder. Hou aan met spoel.
- Skakel dadelik 'n GIFBEHEERSENTRUM of geneesheer.
- Maak stortsel bymekaar.
- Berg agter slot en grendel.
- Raak ontslae van inhoud en houer deur na 'n gevaarlike- of spesiale-afval insamelinplek te besorg.

- Dra rubberhandskoene en -stewels en gesigskerm wanneer konsentraat hanteer word en terwyl gespuit word.
- Moenie eet, drink of rook gedurende vermenging of toediening of voor hande en gesig gewas is nie.
- Verhoed wegdrywing van spuitnewel na ander gewasse, weivelde, riviere en damme en areas nie onder bespuiting nie.
- Leë houers moet DRIE KEER UITGESPOEL word soos volg: Keer die leë houer om oor die spuittenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloei tot 'n gedrup verminder het. Spoel die houer daarna drie keer uit met 'n volume water gelykstaande aan 'n minimum van 10% van die houer. Gooi die spoelwater by die inhoud van die spuittenk voordat die houer op die voorgeskrewe wyse vernietig word.
- Maak toedieningsapparaat skoon na gebruik en moenie gewasse, weivelde, riviere of damme met die waswater besoedel nie.
- Vernietig leë houer en moet nooit vir enige ander doel gebruik nie.
- Vermyn besoedeling van voedsel, voer, eetgerei en drinkwater.

## RELEVANTE STOWWE

Gevaarlike Bestanddele Volgens UN GHS kriteria	CAS number	Concentration (W/W)
pyraclostrobin (ISO); methyl N-[2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl](N-methoxy)carbamate	175013-18-0	6,36 %
epoxiconazole (ISO); (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane	133855-98-8	3,97 %
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Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester, (2S)-	186817-80-1	< 35 %
Benzyl alcohol	100-51-6	< 25 %
Methyl-Oxirane, Blockpolymer with Oxirane, Monoisotridecyl ether	196823-11-7	< 20 %
Poly(oxy-1,2-ethanediyl), .alpha.-[tris(1-phenylethyl)phenyl]-.omega.-hydroxy-	99734-09-5	< 10 %
Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-, ammonium salt	119432-41-6	< 10 %
Dimethyl sulfoxide	67-68-5	< 5 %

## NOODHULPBEHANDELING

Verwyder besoedelde klere

<b>INDIEN IN DIE OË:</b>	Spoel aangetaste oë vir ten minste 15 minute met lopende water, terwyl die ooglede oorgehou word. Raadpleeg 'n oogspesialis.
<b>INDIEN INGESLUK:</b>	Spoel mond dadelik uit en drink 200 – 300 ml water. Verkry mediese hulp.
<b>INDIEN OP DIE VEL:</b>	Was aangetaste area deeglik met seep en water en verbind met steriele verbande. Raadpleeg 'n velspesialis.
<b>INDIEN INGEASEM:</b>	Hou pasiënt kalm en verwyder na vars lug. Verkry mediese hulp. Dien onmiddellik 'n kortikosteroïed toe met die gebruik van 'n beheerde/gemeteerde dosis inhaleerde

BEHANDELING: Behandel simptome (reinig, belangrikste funksies). Daar is geen spesifieke teenmiddel nie.



## WAARSKUWING TEEN WEERSTAND

**Ceriox**® is 'n FRAC Groepkodes 7, 11 en 3 swamdoder. Enige populasie van 'n spesifieke swam mag individue insluit wat 'n natuurlike weerstand teen **Ceriox**® of enige ander Groepkodes 7, 11 en 3 swamdoders het. Indien hierdie swamdoders in herhaaldelike en eksklusiewe programme aangewend word, kan die weerstandbiedende individue uiteindelik die swampopulasie oorheers. Hierdie weerstandbiedende swamme sal waarskynlik nie deur **Ceriox**® of enige ander Groepkodes 7, 11 en 3 swamdoders beheer word nie.

Om weerstand teen swamdoders te vertraag:

- Vermoë die eksklusiewe herhaaldelike gebruik van swamdoders in dieselfde Swamdodergroepkode. Wissel af met produkte in verskillende Swamdodergroepkodes.
- Sien toepaslike individuele produktetikette wanneer daar afgewissel word met produkte in ander Swamdodergroepkodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in swamdoderprogramme.

VIR SPESIFIEKE INLIGTING OOR WEERSTANDBESTUUR, KONTAK DIE REGISTRASIEHOUER, BASF SA (Edms) Bpk.

## GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS VOORGESKRYF

### Algemene inligting:

Benewens die swamdodende eienskappe van **Ceriox**®, besit dit ook die potensiaal om plantfisiologiese effekte te verhoog, tot voordeel van die gewas. Plaaslike navorsing het getoon dat die gebruik van **Ceriox**® volgens etiketaanwysings ook oesopbrengste kan verhoog, selfs in situasies waar daar lae siektedruk voorkom.

**Toediening met rugsakspuit word nie aanbeveel nie.**

### Verenigbaarheid:

Dit word egter nog steeds aanbeveel dat die verenigbaarheid van **Ceriox**® eers met ander onkruidodders, insekdoders en mytdoders op 'n klein skaal getoets moet word voordat 'n tenkmengsel voorberei word.

MOENIE addisionele benatters, verspreiders of ander byvoegmiddels saam met **Ceriox**® gebruik nie, siende dat dit alreeds met die optimale hoeveelheid byvoegmiddels geformuleer is. Die enigste uitsondering is 'n vloeibare (50%), hoë kwaliteit ammoniumsulfaat in streke waar dit bekend is dat die waterkwaliteit swak is.

### Menginstruksies:

Maak die spuitnek halfvol met skoon water. Meet die benodigde hoeveelheid **Ceriox**® af en meng dit vooraf met minstens 10 ℓ water. Voeg hierdie mengsel by die water in die spuitnek terwyl die mengsel geroer word. Vul die spuitnek met water terwyl daar nog steeds geroer word ten einde deeglike vermenging van die spuitmengsel te verseker alvorens daar begin word met bespuiting. Handhaaf roering gedurende die hele spuitproses. Aangemaakte spuitmengsel moenie in die spuitnek gelaat word vir enige bepaalde tydperk, bv. oornag, nie.

### Anti-weerstandbiedendheidsstrategie:

Om die ontwikkeling van weerstandbiedendheid sowel as die doeltreffende werking van **Ceriox**® (en verwante FRAC Groepkodes 7, 11 en 3 swamdoders) te handhaaf, teen siektes op gars en koring, moet die volgende riglyne gevolg word:

- Moenie die voorgeskrewe dosis soos aanbeveel op die etiket verlaag nie.
- Wanneer ander FRAC Groepkodes 7, 11 en 3 swamdoders gebruik word in 'n program met **Ceriox**® verseker dat die beperking op die aantal toedienings gehandhaaf word.
- Moenie meer as twee **Ceriox**® bespuitings per seisoen oorskrei nie.

Alle toedienings moet met geskikte toerusting wat in goeie werkende toestand en korrek gekalibreer is gemaak word ten einde die verlangde bedekking te gee vir die betrokke toedieningsmetode.

### Lugtoediening:

**Ceriox**® kan slegs deur 'n geregistreerde Lugbespuitingsperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SABS Kode 10118 (Aerial Application of Agricultural Pesticides) uit die lug bespuit word. Verseker dat die spuitmengsel eweredig oor die teikenarea versprei word, en die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is daarom belangrik om aan die volgende vereistes te voldoen:

- **Volume:** 'n Spuitmengsel volume van 30 – 40 ℓ per ha word aanbeveel. Hierdie produk is nie teen 'n verlaagde volume getoets nie. Die registrasiehouer kan nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effekte indien hierdie produk teen 'n laer volume, as hierbo aanbeveel, toegedien word nie.
- **Druppel bedekking:** 25 tot 30 druppels per cm<sup>2</sup> moet op die teikenarea herwin word.

- **Druppelgrootte:** 'n Druppelspektrum met 'n VMD van 280 – 300 mikrons word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikrons (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- **Vlieg hoogte:** Handhaaf die hoogte van die spuitbalk bo die teiken op 3 tot 4 meter. Moet nie spuit wanneer die vliegtuig duik, uitklim of draai nie.
- Gebruik geskikte **atomiseringsapparaat** wat die vereiste druppelgrootte en bedekking sal produseer, maar die minste verlies van produk verseker. Die spuitstelsel moet 'n druppelspektrum met die kleinste moontlike Relatiewe Span produseer.
- Plaas al die atomiseerders in die binnste 60 tot 75 % van die vlerkspan om te verhoed dat druppels binne-in die **verkpuntvorteks** beweeg.
- Die verskil in **temperatuur** tussen die nat- en droëboltermometer van 'n swaaighrometer, moet nie 8°C oorskry nie.
- Stop bespuiting indien die **windspoed** 15 km/h oorskry.
- Stop bespuiting tydens **turbulente**, onstabiele en droë toestande gedurende die hitte van die dag.
- Bespuiting onder temperatuur **inversie toestande** (deur bo of binne die inversie laag te spuit) en/of **hoë lugvog toestande** (relatiewe humiditeit 80% en meer) mag tot volgende probleme aanleiding gee:
  - verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang (onvoldoende bedekking op teiken).
  - skade aan nie-teiken gewasse of sensitiewe areas as gevolg van wegdrywing van die spuitwolk na nie-teiken area.
- Verseker dat die Lugbespuitingsoperateur presies weet water lande bespuit moet word.
- Dit is noodsaaklik om 'n versekering van die Lugbespuitingsoperateur te verkry dat aan al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat is vir toekomstige verwysing.

GEWAS	SIEKTE	DOSIS t/ha	GEBRUIKSAANBEVELINGS
<b>GARS</b>	Blaarvlek ( <i>Rhynchosporium secalis</i> ) Bruinroes ( <i>Puccinia hordei</i> ) Netvlek ( <i>Pyrenophora teres</i> ) Poelieragtige skimmel (meeldou) ( <i>Erisiphe graminis</i> )	0,8	Dien voorkomend toe, of sodra infeksiesimptome waargeneem word. Indien toestande gunstig vir siekteontwikkeling voortduur, moet 'n tweede bespuiting 3 – 4 weke later toegedien word. Die eerste toediening op gars moet ideaal by die ses-blaarstadium gemaak word (verskyning van die eerste node).  Dien in 'n voldoende hoeveelheid water toe om volledige bedekking van die blare en stingels te verseker. Gebruik die volgende as 'n riglyn:  <b>Grondtoediening:</b> Dien in 200 – 250 ℓ water/ha toe. <b>Lugtoediening:</b> Dien in 30 – 40 ℓ water / ha toe.  <b>Moenie meer as twee Ceriax® bespuitings per seisoen toedien nie.</b>
<b>KORING</b>	Vaalblaar en Bruinaarsiekte ( <i>Septoria spp.</i> ) Bruinroes ( <i>Puccinia triticina</i> ) Stamroes ( <i>Puccinia graminis</i> ) Poelieragtige skimmel (meeldou) ( <i>Erisiphe graminis</i> ) Geelroes/Streeproes ( <i>Puccinia striiformis</i> )	0,8	Dien voorkomend toe, of sodra infeksiesimptome waargeneem word. Moenie die eerste toediening later as die ontwikkeling van die vlagblaar spuit nie. Indien toestande gunstig vir siekteontwikkeling voortduur, moet 'n tweede bespuiting 3 – 4 weke later toegedien word.  Dien in 'n voldoende hoeveelheid water toe om volledige bedekking van die blare en stingels te verseker. Gebruik die volgende as 'n riglyn:  <b>Grondtoediening:</b> Dien in 200 – 250 ℓ water/ha toe. <b>Lugtoediening:</b> Dien in 30 – 40 ℓ water / ha toe.  <b>Moenie meer as twee Ceriax® bespuitings per seisoen toedien nie.</b>

## VERKOOPSVORWAARDES EN WAARBORG

Die **GEBRUIKSAANWYSINGS** van hierdie produk weerspieël die opinie van kundiges, gebaseer op gebruik in die veld en in proewe. Die aanwysings word as betroubaar geag en moet noukeurig nagekom word. Dit is egter onmoontlik om alle risiko's wat inherent met die gebruik van hierdie produk geassosieer word, uit te skakel. Gewasskade, oneffektiwiteit of ander onopsetlike gevolge mag voorkom as gevolg van faktore soos weerstoestande, teenwoordigheid van ander materiale, of wanneer die produk op 'n wyse wat teenstrydig met die etiket is, gebruik word; dit alles is buite die beheer van BASF Suid-Afrika (Edms) Bpk ("BASF") of die Verkoop. In die mate waarin dit in ooreenstemming met toepaslike wetgewing is, sal alle risiko's deur die Koper aanvaar word. BASF waarborg dat hierdie produk aan die vereistes van die chemiese beskrywing op die etiket voldoen, en is redelikerwys geskik vir die gebruiksdoeleindes soos uiteengesit in die GEBRUIKSAANWYSINGS, onderhewig aan die inherente risiko's, soos hierbo na verwys.

**IN DIE MATE WAT DIT MET TOEPASLIKE WETGEWING OOREENSTEM, GEE BASF GEEN ANDER UITDRUKKING OF GEÏMPLISEERDE WAARBORG VAN GESKIKTHEID OF VERKOOPSVERNUF OF ENIGE ANDER UITDRUKKING OF GEÏMPLISEERDE WAARBORG NIE. IN DIE MATE WAT DIT MET TOEPASLIKE WETGEWING OOREENSTEM, SAL DIE KOPER SE UITSLUITLIKE REGSMIDDEL EN BASF SE UITSLUITLIKE AANSPREEKLIKHEID, HETSY IN KONTRAK, ONREGMATIGHEID, NALATIGHEID, STRENG AANSPREEKLIKHEID, OF ANDERSINDS, BEPERK WORD TOT TERUGBETALING VAN DIE AANKOOPPRYS VAN DIE PRODUK. IN DIE MATE WAT DIT MET TOEPASLIKE WETGEWING OOREENSTEM, DOEN BASF EN DIE VERKOPER, AFSTAND VAN ENIGE AANSPREEKLIKHEID TEN OPSIGTE VAN VOORTSPRUITENDE SKADE, SKADEVERGOEDING, SPESIALE OF INDIRECTE SKADE, UIT DIE GEBRUIK OF HANTERING VAN HIERDIE PRODUK.**

BASF en die Verkoper bied hierdie produk aan, en die Aankoper en Gebruiker aanvaar dit, onderhewig aan die voorafgaande Verkoopsvoorwaardes en Waarborg, wat slegs gewysig mag word deur 'n skriftelike ooreenkoms, wat na behore deur 'n gemagtigde verteenwoordiger van BASF onderteken is.

Cerix<sup>®</sup> is 'n geregistreerde handelsmerk van BASF

# Ceriox®

Reg. No. L9801; N-AR 2187

Act No. 36 of 1947

**READ ATTACHED PACKAGE OR LEAFLET BEFORE USE  
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

GROUP	3	7	11	FUNGICIDES
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**An emulsifiable concentrate fungicide with systemic and translaminar properties for the preventive control of diseases in barley and wheat as indicated.**

**'n Emulgeerbarekonsentraatswamdoder met sistemiese- en translaminêre eienskappe vir die voorkomende beheer van siektes soos aangedui op gars en koring.**

Harmful if swallowed or if inhaled.  
Causes mild skin irritation.  
Causes serious eye damage.  
Suspected of causing cancer.  
Suspected of damaging fertility. Suspected of damaging the unborn child.  
May cause harm to breast-fed children.  
Very toxic to aquatic life with long lasting effects.  
Wear protective gloves/clothing/eye protection.  
Avoid contact during pregnancy/while nursing.

**Active ingredients / Aktiewe bestanddele:**

Fluxapyroxad (pyrazole-carboxamide).....41,6 g/l  
Pyraclostrobin (methoxy-carbamate).....66,6 g/l  
Epoxiconazole (triazole).....41,6 g/l

**Registered by:**

BASF South Africa (Pty) Ltd  
Co. Reg. No. 66/10235/07  
852 Sixteenth Road  
P.O. Box 2801  
Halfway House 1685  
+27 11 203 2400

**Geregistreeur deur:**

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+27 11 203 2400

**Batch No. & Date manufactured:** Refer to details printed on container  
**Lotnommer & Datum vervaardig:** Verwys na besonderhede gedruk op houer

**UN-No. / VN-Nr:** 3082

**EMERGENCY NUMBER / NOODNOMMER:** +27 82 446 8946



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