

Opera®

Reg. No. L9103; N-AR 2156

Act No. 36 of 1947

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

GROUP	3	11	FUNGICIDES
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A suspo-emulsion fungicide with contact and translaminar properties for the preventive control of diseases in maize, soya beans and sugarcane as indicated.

'n Suspo-emulsie swamdoder met kontak- en translaminêre eienskappe vir die voorkomende beheer van siektes op mielies, sojabone en suikerriet soos aangedui.

Hazard statements:

Causes skin irritation.
Suspected of causing cancer.
Suspected of damaging fertility. Suspected of damaging the unborn child.
Harmful if swallowed or if inhaled.
Very toxic to aquatic life with long lasting effects.

Precautionary statements:

Wear protective gloves, protective clothing and eye protection or face protection.
Do not breathe mist or vapour.

Active ingredients / Aktiewe bestanddele:

Pyraclostrobin (methoxy-carbamate) 133 g/l
Epoxiconazole (DMI-fungicide) 50 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

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

EMERGENCY NUMBERS +27 82 446 8946 or +27 11 203 2420
In case of poisoning, call the following number: +27 82 446 8946



® = Registered trademark of BASF / Geregistreerde handelsmerk van BASF

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WARNINGS

Hazard Statements

- Causes skin irritation.
- Suspected of causing cancer.
- Suspected of damaging fertility. Suspected of damaging the unborn child.
- Harmful if swallowed or if inhaled.
- Very toxic to aquatic life with long lasting effects.

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

Maize	30
Soya beans	85
Sugarcane	60

- **Soya beans:** Do not graze.
- 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 area within 1 day after treatment unless wearing protective clothing.

Aerial application:

- Notify and warn all inhabitants in the immediate area of the intended application and issue the necessary warnings.
- Do not spray over adjacent areas or water or permit spray to drift there.

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 carefully and follow all instructions.
- Wear protective gloves, protective clothing and eye protection or face protection.
- Use only outdoors or in a well-ventilated area.
- Obtain special instructions before use.
- Do not breathe the mist or vapour.
- Do not handle until all safety precautions have been read and understood.
- Do not eat, drink or smoke when using this product.
- Wash contaminated body parts thoroughly after handling.
- Call a POISON CENTER or physician if you feel unwell.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF exposed or concerned: Get medical attention.
- IF ON SKIN: Wash with plenty of soap and water.
- Rinse mouth.
- Collect spillage.
- If skin irritation occurs: Get medical attention.
- Take off contaminated clothing and wash it before reuse.
- Store locked up.
- Dispose of contents and container to hazardous or special waste collection point.

- Wear rubber gloves and boots and face shield when handling concentrate and whilst applying.
- Prevent spray drift onto other crops, grazing, rivers and dams and areas not under treatment.
- **TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.
- 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-yl]oxymethyl]phenyl} (N-methoxy)carbamate	175013-18-0	12,58 %
epoxiconazole(ISO); (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane	133855-98-8	4,73 %
Solvent naphtha (petroleum), heavy arom.	64742-94-5	< 40 %
Alcohols, C16-18, ethoxylated propoxylated	68002-96-0	< 15 %
Benzenesulfonic acid, hydroxy-, polymer with formaldehyde, phenol and urea, sodium salt	102980-04-1	< 5 %
1,2-Benzisothiazol-3(2H)-one	2634-33-5	< 0,01 %

FIRST AID TREATMENT

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

ON CONTACT WITH EYES:	Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
ON INGESTION:	Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.
ON SKIN CONTACT:	Immediately wash thoroughly with soap and water, seek medical attention.
IF INHALED:	Keep patient calm, remove to fresh air, seek medical attention.

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

RESISTANCE WARNING

For resistance management, OPERA® is a FRAC Group Codes 3 & 11 fungicide. Any fungal population may contain individuals naturally resistant to OPERA® and other Group Codes 3 & 11 fungicides. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly and exclusively in programmes. These resistant fungi may not be controlled by OPERA® or any other Group Codes 3 & 11 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 other control methods (chemical, cultural, biological) into disease control programmes.

FOR SPECIFIC INFORMATION ON RESISTANCE MANAGEMENT, CONTACT THE REGISTRATION HOLDER, BASF South Africa (Pty) Ltd.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

General information:

Apart from fungicidal activity, pyraclostrobin (F500®), one of the active ingredients of OPERA®, exhibits the potential to increase plant physiological effects which are beneficial to the crop. In growing number of regions, including the USA, UK, Europe, Brazil and Argentina, pyraclostrobin (F500®) is also registered and recommended as a plant health remedy to increase yields. Research conducted locally has proven that the use of OPERA®, according to label recommendations, can also increase yield even in situations when low disease pressure occurs.

This product is not recommended for knapsack application.

Compatibility:

The compatibility of OPERA® has been proven with FASTAC® EC (Reg. No. L4991) and FASTAC® SC (Reg. No. L4992). It is however always recommended that the compatibility of OPERA® with other herbicides, insecticides and acaricides, be tested on a small scale before use in spray mixtures.

DO NOT use any additional wetters, spreaders or other adjuvants as OPERA® has already been formulated with optimised amounts of surfactants.

In regions where water quality is known to be poor, pre-condition the spray water with a registered, high quality flowable or granular ammonium sulphate before adding Opera®. Always refer to the relevant product labels for the dose rate to be used and directions for use. Only use an ammonium sulphate that does not contain any other components such as added acidifiers or acidifying systems, humic or fulvic acids, additional adjuvants, wetters, stickers, spreaders, or conditioning agents, etc.

Mixing instructions:

Half fill the tank with clean water. Measure the required quantity of OPERA® and premix 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:

- In order to maintain the efficacy of **OPERA®**, it is necessary to prevent the development of resistance of the diseases against fungicides of the DMI (triazole) and strobilurin groups.
- Do not reduce the dose rate below what is recommended on the label.
- Never use other DMI (triazole) or strobilurin fungicides, or related fungicides, in the same programme with **OPERA®**.

Aerial application:

Aerial application of **OPERA®** 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 to 35 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 aerially at a lower volume rate than recommended above.
- **Droplet coverage:** 50 to 70 droplets per cm² must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 250 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 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 is as 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.

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

CROP	DISEASE	DOSAGE / ha	DIRECTIONS FOR APPLICATION
MAIZE and SWEET CORN	Grey leaf spot (<i>Cercospora zeae-maydis</i>)	750 ml	OPERA® is recommended in an integrated disease management programme. Consistent and reliable disease control is dependant on preventive fungicide applications. Apply the first application of OPERA® at growth stage 31 (first node detectable above the soil surface, also described as the 5 – 6 leaf stage). A second application of OPERA® is recommended at growth stage 51 (tassel detectable). If extended disease control is required under continued high disease pressure conditions, a third application with DUETT® ULTRA (Reg. No. L9278) is recommended 3 – 4 weeks later. In areas / conditions where low disease presence is expected, apply OPERA® between growth stage 31 (first node detectable above soil surface, also described as the 5 – 6 leaf stage) and growth stage 35 (8 leaf stage). Growth stage 35 is regarded as the last possible stage to enter the field with a conventional tractor applicator. If extended disease control is required, revert back to the abovementioned follow-up application of OPERA®. High disease pressure is increased by the following factors: • Persistent favourable climatic conditions. • Density of plantings. • Inoculum source (especially under minimum till practices). • Disease susceptibility of variety/hybrid planted. • A delay to initiate the fungicide program. Ground application: Apply as a full cover spray in 300 – 500 ℓ water/ha. Aerial application: As for recommendations above in 40 ℓ water/ha. Row application for low density plantings: This dosage is based on an overall ground application of 750 ml/ha, in 300 ℓ water/ha. Apply using a tandem fitting with two solid- or hollow cone nozzles, mounted on the boom above each row. Use sufficient water (not less than 100 ℓ/ha), to ensure total coverage of the plant. Do not exceed two applications of OPERA® per season.
	Northern leaf blight (<i>Setosphaeria turcica</i>)		
	Rust (<i>Puccinia sorghi</i>)	250 ml/ 100 ℓ water	

CROP	DISEASE	DOSAGE / ha	DIRECTIONS FOR APPLICATION
SOYA BEANS	Soya bean rust (<i>Phakospora pachyrhiz</i>)	500 ml	Apply two applications. The first application is to be applied as a preventive treatment against the disease. Apply the first application at early flowering or at the first sign of disease symptoms. The second application at pod development and filling approximately 3 – 4 weeks after the first application. Ground application: Apply as a full cover spray in 400 ℓ water/ha.
SUGARCANE	Brown rust (<i>Puccinia melanocephala</i>)	750 ml – 1 ℓ	Apply two applications. The first application is to be applied as a preventive application at the 4 – 6 leaf stage, or at the first sign of infection. Apply the second application 4 weeks later. Use the higher rate when environmental conditions are conducive to the development of the disease, or when disease pressure is high. Ground application: Apply as a full cover spray in 200 ℓ water/ha.

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.

F500®, OPERA®, FASTAC® EC, FASTAC® SC and DUETT® ULTRA are registered trademarks of BASF.

AFRIKAANS

WAARSKUWINGS

Gevaarverklarings

- Veroorsaak velirritasie.
- Vermoede dat dit kanker veroorsaak.
- Vermoede dat dit vrugbaarheid beskadig. Vermoede dat dit die ongebore kind beskadig.
- Skadelik indien ingesluk of ingeasem.
- Baie giftig vir waterlewendende organismes met langdurige gevolge

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

Mielies	30
Sojabone	85
Suikerriet	60

- **Sojabone:** Geen beweidning.
- Hanteer versigtig
- Hou buite bereik van kinders, oningeligte persone en diere.
- Bêre weg van voedsel en voer.
- Herbetreding: Moet nie behandelde gebied betree vir 1 dag na die bespuiting nie, tensy beskermende oorklere gedra word.

Lugtoediening:

- Verwittig en waarsku alle inwoners in die onmiddellike gebied van die beoogde toedienings en reik die nodige waarskuwings uit.
- Moenie oor aangrensende gebiede of water spuit of spuitstof daarheen laat oorwaai 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 dier 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 nodig word, hou die produkhouer of -etiket byderhand.
 - Hou buite bereik van kinders.
 - Lees sorgvuldig en volg alle instruksies.
 - Dra beskermende handskoene, beskermende klere en oogbeskerming of gesigbeskerming.
 - Gebruik slegs buitenshuis of in 'n goed geventileerde area.
 - Verkry spesiale instruksies voor gebruik.
 - Moet nie spuitstof of dampe inasem nie.
 - Moenie hanteer voor alle veiligheidsmaatreëls gelees en verstaan is nie.
 - Moet nie eet, drink of rook wanneer hierdie produk gebruik word nie.
 - Was besoedelde liggaamsdele deeglik na hantering.
 - Ontbied 'n GIFSENTRUM of geneesheer indien jy ongesteld voel.
 - INDIEN INGEASEM: Neem slagoffer na vars lug en hou gemaklik vir asemhaling.
 - INDIEN blootgestel of besorg: Kry mediese hulp.
 - INDIEN OP VEL: Was met baie seep en water.
 - Spoel mond uit.
 - Maak stortsel bymekaar.
 - Indien velirritasie ontstaan: Kry mediese hulp.
 - Trek besoedelde klere uit en was dit voor hergebruik.
 - Berg agter slot en grendel.
 - Raak ontslae van inhoud en houer deur na 'n gevaarlike- of spesiale-afval insamelingsplek te besorg.
- Dra rubberhandskoene en -stewels en gesigskerm wanneer konsentraat hanteer word en terwyl gespuut word.
 - Verhoed wegdrywing van spuitnewel na ander gewasse, weivelde, riviere en damme en areas wat nie behandel word nie.
 - SPOEL LEE HOUEER DRIE KEER AS VOLG: Keer die leë houer oor die spuit of mengtenk om en dreineer vir minstens 30 sekondes nadat die vloeitot 'n gedrup verminder het. Spoel daarna die leë houer drie keer na mekaar met een kwart van die houervolume vars water en giet die spoelwater in die spuittenk of mengtenk oor. Kap gate in die drie keer gespoelde houer waarna dit aan 'n goedgekeurde versamelaar of verwerker oorhandig moet word (www.croplife.co.za). Moet nie die houer begrawe, verbrand of aan enige ander partye skenk wat dit as houer vir voedsel of drinkgoed mag gebruik nie.
 - Maak toedieningsapparaat skoon na gebruik en moenie gewasse, weivelde, riviere of damme met die waswater besoedel nie.
 - Vermyn besoedeling van voedsel, voer, eetgerei en drinkwater.

RELEVANTE BESTANDDELE

Gevaarlike bestanddele Volgens UN GHS kriteria	CAS nommer	Konsentrasie (W/W)
pyraclostrobin (ISO); methyl N-(2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl)(N-methoxy)carbamate	175013-18-0	12,58 %
epoxiconazole(ISO); (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane	133855-98-8	4,73 %
Solvent naphtha (petroleum), heavy arom.	64742-94-5	< 40 %
Alcohols, C16-18, ethoxylated propoxylated	68002-96-0	< 15 %
Benzenesulfonic acid, hydroxy-, polymer with formaldehyde, phenol and urea, sodium salt	102980-04-1	< 5 %
1,2-Benzisothiazol-3(2H)-one	2634-33-5	< 0,01 %

NOODHULPBEHANDELING

Noodhulpersoneel moet aandag gee aan hul eie veiligheid. As die pasiënt waarskynlik bewusteloos sal raak, plaas en vervoer in 'n stabiele sywaartse posisie (herstelposisie). Verwyder onmiddellik besmette klere.

INDIEN IN DIE OË :	Spoel aangetaste oë vir ten minste 15 minute met lopende water terwyl die ooglede oopgehou word, raadpleeg 'n oogspesialis.
INDIEN INGESLUK :	Spoel mond dadelik uit en drink 200-300 ml water, verkry mediese hulp.
INDIEN OP DIE VEL :	Was dadelik aangetaste area deeglik met seep en water, verkry mediese hulp.
INDIEN INGEASEM :	Hou pasiënt kalm, verwyder na vars lug, verkry mediese hulp.

BEHANDELING: Behandel simptome (ontsmetting, belangrikste funksies), daar is geen spesifieke teenmiddel nie.

WAARSKUWING TEEN WEERSTAND

Opera® is 'n FRAC Groepkodes 3 & 11 swamdoder. Enige swampopulasie van 'n spesifieke soort mag individue insluit wat 'n natuurlike weerstand teen Opera® en enige ander groepkodes 3 & 11 swamdoders het. Indien hierdie swamdoders herhaaldelik en uitsluitlik in programme aangewend word, kan die weerstandige individue uiteindelik die swampopulasie oorheers. Hierdie weerstandige swamme sal waarskynlik nie deur Opera® of enige ander groepkodes 3 & 11 swamdoders beheer word nie.

Om weerstand teen swamdoders te vertraag:

- Vermey die uitsluitlike, herhaaldelike gebruik van swamdoders in dieselfde swamdoder-groepkode. Wissel af met, of gebruik tenkmengels van produkte in verskillende onkruidodder-groepkodes.
- Sien toepaslike, individuele produktetikette wanneer afwisseling met produkte in ander swamdoder-groepkodes gedoen word, of wanneer ander tenkmengels gebruik word.
- Integreer ander beheermaatreëls (chemies, bewerking en biologies) in swambeheerprogramme.

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

GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS VOORGESKRYF

Algemene inligting:

Benewens die swamdoderende eienskap, besit F500®, een van die aktiewe bestanddele van Opera®, ook die potensiaal om plantgesondheid te verhoog, tot voordeel van die gewas. In steeds groeiende aantal gebiede, insluitende die VSA, Engeland, Europa, Brazilië en Argentinië, is F500®, ook geregistreer en word aanbeveel as 'n plantgeneesmiddel, wat opbrengste verhoog. Plaaslike navorsing het getoon dat die gebruik van Opera®, volgens etiketaanwysings, ook oesopbrengste kan verhoog, selfs in situasies waar daar lae siektedruk voorkom.

Rugsakspuit met handbalktoediening word nie aanbeveel nie.

Verenigbaarheid:

Opera® is verenigbaar met Fastac® EC (L4991) en Fastac® SC (L4992). Dit word egter nog steeds aanbeveel dat die verenigbaarheid van Opera® 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 Opera® gebruik nie, siende dat dit alreeds met die optimale hoeveelheid byvoegmiddels geformuleer is.

In streke waar dit bekend is dat die watergehalte swak is, moet u die spuitwater vooraf kondisioneer met 'n geregistreerde, vloeibare – of korrelvorm ammoniumsulfaat van hoë gehalte voordat Opera® bygevoeg word. Verwys altyd na die relevante produktetikette vir die dosis wat gebruik moet word en gebruiksaanwysings. Gebruik slegs 'n ammoniumsulfaat wat geen ander komponente bevat nie, soos bygevoegde versuurmiddels of versuringstelsels, humien- of fulviensure, addisionele hulpmiddels, benatters, plakkers, strooiers of kondisioneringsmiddels, ens.

Menginstruksies:

Maak die spuittenk halfvol met skoon water. Meet die benodigde hoeveelheid Opera® af en meng dit vooraf met minstens 10 l water. Voeg hierdie mengsel by die water in die spuittenk, terwyl die mengsel geroer word. Vul die spuittenk 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 spuittenk gelaat word vir enige bepaalde tydperk, bv. oornag, nie.

Anti-weerstandbiedendheidsstrategie:

- Dit is belangrik dat om die doeltreffende werking van Opera® vir beheer te handhaaf, moet die ontwikkeling van weerstandbiedendheid van die siektes teen swamdoders van die DMI (triasool-) en strobilurienegroep voorkom word.
- Moenie die voorgeskrewe dosis, soos aanbeveel op die etiket, verlaag nie.
- Moet nooit ander DMI (triasool-) of strobilurien swamdoders, of verwante swamdoders, in dieselfde program met Opera® gebruik nie.

Lugtoediening:

Opera® kan slegs deur 'n geregistreerde lugbespuitingsperateur, met 'n korrek gekalibreerde, geregistreerde vliegtuig, volgens die instruksies van SANS 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 Spuitmengselvolume van 30 – 35 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.
- **Druppelbedekking:** 50 – 70 druppels per cm² moet op die teikenarea herwin word.
- **Druppelgrootte:** 'n Druppelspektrum met 'n VMD van 250 mikron word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikron (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- **Vlieghoogte:** Handhaaf die hoogte van die spuitbalk bo die teiken op 3 – 4 meter. Moenie 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 binneste 60 – 75% van die vlerkspan om te verhoed dat druppels binne-in die vlerkpuntvorteks beweeg.
- Die verskil in temperatuur tussen die nat- en droëboltermometer van 'n swaaihieter, moenie 8°C oorskry nie.
- Stop bespuiting indien die windspoed 15 km/uur 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 en moontlik verdamp (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 watter 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.

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

GEWAS	SIEKTE	DOSIS / ha	GEBRUIKSAANBEVELINGS
MIELIES en SUIKERMIELIES	Grysblaarvlek (<i>Cercospora zeina</i>) Noordelike blaarskroei (<i>Exserohilum turcicum</i>) Roes (<i>Puccinia sorghi</i>)	750 ml	Opera® word as 'n geïntegreerde siektebeheerprogram aanbeveel. Bestendige en betroubare siektebeheer is afhanklik van voorbehoedende swamdoder-toedienings. Dien die eerste Opera® toediening op groeistadium 31 (eerste knoop sigbaar bo die grondoppervlak, ook die 5 – 6 blaarstadium genoem) toe. 'n Tweede toediening van Opera® word met groei-stadium 51 (pluim sigbaar) aanbeveel. Indien verlengde siekte-beheer benodig word gedurende aanhoudende hoë siektedruk, word dit aanbeveel dat 'n derde bespuiting met DUETT® ULTRA (Reg. No. L9278), 3 – 4 weke later toegedien word. In areas/omstandighede, waar lae siektedruk verwag word, moet Opera® tussen groeistadium 31 (eerste knoop sigbaar bo die grondoppervlak, ook die 5 – 6 blaarstadium genoem) en groei-stadium 35 (8-blaarstadium), toegedien word. Groeistadium 35, word gesien as die laaste moontlike stadium waar die land gespuit kan word, met 'n konvensionele trekker. Indien verlengde siektebeheer vereis word, moet terug verwys word na bogenoemde opvolgbespuiting van Opera®. Die volgende faktore verhoë hoë siektedruk: • Volgehoue voordelige klimaatstoestande. • Digtheid van aanplanting. • Bron van innokulum (veral met minimum bewerking). • Siektevatbaarheid van die variëteit/hibried aangeplant. • 'n Vertraging in aanvang van die swamdoderprogram Grondtoediening: Dien as 'n volbedekking in 300 – 500 l water/ha toe. Lugtoediening: Soos aanbevelings hierbo in ten minste 40 l water/ha.

GEWAS	SIEKTE	DOSIS / ha	GEBRUIKSAANBEVELINGS
		250 ml/100 l water	Rytoediening vir laedigheid aanplantings: Hierdie dosis is gebaseer op algehele grondtoediening van 750 ml/ha, in 300 l water/ha. Dien met 'n tandempassing toe met twee solied- of holkeëlsput-punte, wat bo-oor elke ry gemonteer is. Gebruik genoeg water (nie minder as 100 l/ha nie), om te verseker dat die hele plant bedek word. Moenie meer as twee Opera® bespuitings per seisoen toedien nie.
SOJABONE	Sojaboonroes (<i>Phakospora pachyrhizi</i>)	500 ml	Dien twee bespuitings toe. Die eerste bespuiting moet voorkomend teen siekte toegedien word. Dien die eerste toediening as 'n voorkomende behandeling op die vroeë blomstadium toe, of voor die eerste simptome gewaar word. Dien die tweede bespuiting tydens peulontwikkeling en pitvulling toe, 3 – 4 weke na die eerste toediening. Grondtoediening: Dien as 'n volbedekking in 400 l water/ha toe.
SUIKERRIET	Bruinroes (<i>Puccinia melanocephala</i>)	750 ml – 1 l	Dien twee bespuitings toe. Dien die eerste Opera® toediening as 'n voorkomende behandeling op die 4 – 6 blaarstadium toe, of met die eerste tekens van bruinroesinfeksie. Dien die tweede bespuiting 4 weke later toe. Gebruik die hoër dosis wanneer omgewingstoestande gunstig is vir die ontwikkeling van siekte, of wanneer siektedruk hoog is. Grondtoediening: Dien as 'n volbedekking in 200 l water/ha toe.

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 Verkoper. 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 GEIMPLISEERDE 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 INDIREKTE 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.

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Act No. 36 of 1947

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GROUP	3	11	FUNGICIDES
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Active ingredients / Aktiewe bestanddele:

Pyraclostrobin (methoxy-carbamate) 133 g/l
Epoxiconazole (DMI-fungicide) 50 g/l

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