

IMPORTANT NOTICE: THE FOLLOWING INFORMATION (INCLUDING WARNINGS, PRECAUTIONS, USE RESTRICTIONS AND DIRECTIONS FOR USE) MUST BE CAREFULLY READ AND CLEARLY UNDERSTOOD BEFORE USING THIS PRODUCT. IN THE EVENT OF ANY UNCERTAINTY CONSULT THE REGISTRATION HOLDER IMMEDIATELY.

WARNINGS

Hazard Statements: May be harmful in contact with skin. Causes mild skin irritation. Suspected of causing cancer. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

PRE-HARVEST INTERVAL:

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

Barley	70
Maize and sweet corn	30
Soya beans	39
Sugarcane	60
Wheat	60

- Handle with care.
- Keep out of reach of children, uninformed persons and animals.
- Store away from food and feed.
- **Re-entry Interval:** Do not enter treated field within two days after application, unless wearing protective clothing.
- Do not graze treated crop fields or use as fodder.

Aerial application warning:

- 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

General: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response: If exposed or concerned: Get medical advice/attention. Call a poison centre or doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. Collect spillage. Store in a well-ventilated place.

Storage: Store locked up.

Disposal: Dispose of contents and container to an approved waste disposal plant.

- Avoid contamination of human or animal food, feeds/utensils or drinking water.
- Spray drift should not be inhaled, nor should it be allowed to spread over any non-target area such as water bodies, grazing areas or other crops.
- **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.
- Destroy empty container and do not use for any other purpose.

CALCULUS® 125 SE

Reg. No. / Nr L10314 Act No. 36 of 1947/ Wet Nr 36 van 1947

FUNGICIDE



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

FRAC FUNGICIDE GROUP CODE:

11 & 3

FRAC SWAMDOEDERGROEP KODE:

A suspo-emulsion contact and translaminar fungicide for the preventative control of diseases on barley, maize, soybeans, sugarcane and wheat.

'n Suspo-emulsie kontak- en translaminêreswamdoder vir die voorkomende beheer van siektes op gars, koring, mielies, sojabone en suikerriet.

ACTIVE INGREDIENT/AKTIEWE BESTANDEEL:

Epoxiconazole (triazole)..... 62,5 g/ℓ
Pyraclostrobin (methoxy-carbamates) 62,5 g/ℓ



WARNING

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May be harmful in contact with skin.
Causes mild skin irritation.
Suspected of causing cancer.
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

Precautionary Statements:

IF exposed or concerned: Get medical advice/attention.
Call a poison centre or doctor if you feel unwell.
If skin irritation occurs: Get medical advice/attention.

Batch No:

D.O.M:

D.O.E:

Net Contents:

See reverse of packaging for details.

FOR FULL PARTICULARS SEE ATTACHED PAMPHLET.
VIR VOLLEDIGE BESONDERHEDE KYK AANGEHEGTE ETIKET.

UN No. / VR Nr: 3082



REGISTRATION HOLDER/ REGISTRASIEHOUER
Cedar Falls Properties 130 (Pty) Ltd
Reg. Nr.: Reg. No. 2006/031383/07
61 Marshall Drive, Old Mill Industrial Park,
Mount Edgecombe, South Africa, 4300
Tel: 031 003 3486

Poison Information Helpline (24 hrs): 0861 555 777



BARCODE

100320

RELEVANT SUBSTANCES

NAME	PRODUCT IDENTIFIER
Epoxiconazole TC	CAS-No.: 133855-98-8
Pyraclostrobin TC	CAS-No.: 175013-18-0
Tensiofix DB08	-
1,2 propanediol	CAS-No.: 57-55-6
silicon dioxide, amorphous	CAS-No.: 7631-86-9

FIRST AID TREATMENT

Remove patient from source of poisoning and keep him relaxed and rested.

Eye contact: Flush eyes with clean water for about 20 minutes, occasionally holding the eyelid(s) open. If irritation persists, consult an eye specialist.

Skin contact: Rinse contaminated body area with plenty of soap and cold water. Do not rub skin. Apply olive oil to affected areas for prompt relief. Get medical attention if irritation persists.

Inhalation: Move the patient to fresh air. If breathing difficulty or irritation occurs obtain medical attention.

Ingestion: Do not induce vomiting. If the patient is alert, have the mouth thoroughly rinsed with water and give 1 to 2 glasses of water to drink. Do not give anything by mouth to unconscious person. Obtain medical attention immediately.

NOTE TO PHYSICIAN:

There is no specific antidote available. Treat according to symptoms (decontamination, vital functions).

RESISTANCE WARNING AND MANGEMENT

CALCULUS 125 SE contains FRAC Group Codes 3 & 11 fungicides. Any fungal population can contain individuals that are naturally resistant to **CALCULUS 125 SE** and other fungicides from Group Codes 3 & 11. Therefore, if these fungicides are used repeatedly and exclusively in spray programmes, it is possible that these resistant individuals can eventually dominate the fungal population. These resistant fungi may not be controlled by **CALCULUS 125 SE** or any other fungicides of Group Codes 3 & 11.

To delay or retard fungicide resistance:

- Avoid exclusive and repeated use of fungicides from the same Fungicide Group Codes. Alternate or tank-mix with products from different Fungicide Group Codes.
- In cases of tank mixing or alternation with products in other Fungicide Group Codes, refer to the applicable individual product labels.
- Apply the concepts of Integrated Pest Management whereby other control methods (chemical, cultural, biological), are integrated into the disease control programmes.

Anti-resistance strategy:

In order to maintain the efficacy of **CALCULUS 125 SE**, it is necessary to prevent the development of resistance of the diseases to fungicides from the DMI (triazole-) and QOI-fungicide groups (FRAC Group Codes 3 & 11). This can be aided by:

- Never reducing the dose rate to below what is recommended on the label.
- Never using other DMI (triazole-) or QOI-fungicides, or related fungicides, in the same programme with **CALCULUS 125 SE**.
- Not exceeding two applications of **CALCULUS 125 SE** per season.

CONTACT THE REGISTRATION HOLDER FOR MORE INFORMATION ON RESISTANCE MANAGEMENT.

MODE OF ACTION:

Pyraclostrobin: Quinone outside inhibitor. Inhibits mitochondrial respiration by blocking electron transfer at the cytochrome bc1 complex. Fungicide with protectant, curative and translaminar properties. Also causes physiological affects like delayed senescence, greener leaves, better tolerance against biotic and abiotic stress, as well as more efficient use of water and nitrogen.

Epoxiconazole: Inhibition of C-14-demethylase in sterol biosynthesis. Preventative and curative fungicide.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

General information:

Pyraclostrobin, which is one of the active ingredients of **CALCULUS 125 SE**, and it has been shown to have certain effects on the physiology of various crops which can be of commercial benefit. In certain countries, pyraclostrobin is in fact registered and recommended as a plant health remedy, to increase yields.

Compatibility:

CALCULUS 125 SE is compatible with products containing glyphosate and alpha-cypermethrin. In the case of other herbicides, insecticides and acaricides, it is recommended that the compatibility of **CALCULUS 125 SE** should be tested on a small scale before being used on a large scale in spray mixtures.

It is not necessary to use any additional agricultural adjuvants as the **CALCULUS 125 SE** formulation already contains optimum amounts of surfactants. The only exception is when flowable (50%) high quality ammonium sulphate is tank mixed in regions where the water quality is known to be poor. In such instances the water must be ameliorated before adding **CALCULUS 125 SE**.

Mixing instructions:

Half fill the tank with clean water. Measure out the recommended quantity of **CALCULUS 125 SE** and pre-mix this with at least 10ℓ water. Add this mixture to the water already in the spray tank whilst agitating continuously. Fill the spray tank with water and continue to agitate to ensure thorough mixing of the spray mixture before spraying commences. Maintain agitation throughout the whole spraying operation. The spray mixture must be used on the day of preparation and must not be left in the spray tank for any length of time, e.g. overnight.

Aerial application:

Aerial application of **CALCULUS 125 SE** 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 volume of 30 - 40ℓ per hectare is recommended. The registration holder cannot guarantee the efficacy of the treatment nor be held responsible for any adverse effects if this product is applied aurally at a lower volume rate than recommended above.
- **Droplet coverage:** 50 - 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 of less than 150 micron to a minimum as these have a high drift and evaporation potential.
- **Flying height:** Maintain the height of the spray boom at 3 - 4 metres above the target. Do not spray when aircraft dives, or 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 - 75 % of the wingspan, to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometer, 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 field 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 that particular method of application.

For all crops and diseases, do not exceed two applications of CALCULUS 125 SE per season.

CROP	DISEASE	Dosage ℓ / ha	DIRECTIONS FOR APPLICATION
BARLEY	Leaf spot <i>(Rhynchosporium secalis)</i>	1,0	Preventive application, or at very first signs of disease. If there is high disease pressure, apply a second application, 3 – 4 weeks later. Ground application: Apply in 200 – 400 ℓ water / ha. Aerial application: Apply in 30 - 40 ℓ water / ha.
	Leaf rust <i>(Puccinia hordei)</i>	1,0	Apply, as soon as infection is noticed and repeat if necessary, 3 - 4 weeks later. Ground application: Apply in 200 - 400 ℓ water / ha. Aerial application: Apply in 30 – 40 ℓ water / ha.
	Net blotch <i>(Pyrenophora teres)</i>	1,0	Preventive application, or at very first signs of disease. Repeat the application, 3 - 4 weeks later. Ground application: Apply in 200 - 400 ℓ water / ha. Aerial application: Apply in 30 – 40 ℓ water / ha.
	Powdery mildew <i>(Erisiphe graminis)</i>	1,0	Apply, as soon as infection is noticed and repeat if necessary, 3 - 4 weeks later. Ground application: Apply in 200 - 400 ℓ water/ ha. Aerial application: Apply in 30 – 40 ℓ water / ha

SUGARCANE	Brown rust (<i>Puccinia melanocephala</i>) Tawny rust (<i>Puccinia spp.</i>) <i>Refer to Note below</i>	1,6 ℓ	Apply two applications. The first application is, preventative at the 4 – 6 leaf stage of the cane or at the first signs of brown rust infection. The second application is to be done one month after the first. A preventative application for the control of Tawny rust, is strongly advised. This disease develops rapidly and therefore curative application may not always provide the desired results. Ground application: Apply 'full cover' in 200ℓ water / ha. Aerial application: Apply in 30 - 40 ℓ water / ha
WHEAT	Speckled leaf blotch and Glume blotch (<i>Septoria spp.</i>) Brown rust / Leaf rust (<i>Puccinia triticina</i>) Stem rust (<i>Puccinia graminis</i>) Powdery mildew (<i>Erysiphe graminis</i>) Yellow rust / Stripe rust (<i>Puccinia striiformis</i>)	1,0 ℓ	Start spraying at the first sign of infection but not later than 'flag leaf emergence'. A second application can be made 3 – 5 weeks later if high disease pressure occurs. Ground application: Apply in 200–400ℓ water/ha. Aerial application: Apply in 30 - 40 ℓ water / ha

Note:

Tawny rust on sugarcane (formerly referred to as African rust), can occur in all the production areas of South Africa. A definition and full description of this species is currently in progress. This rust has unique symptoms and can be easily distinguished from Brown rust, by the following visual characteristics:

The rust pustules on the leaf surface occur on both the top and the bottom of the leaves.

The rust pustules on both leaf surfaces are distinctly orange in colour when they burst open.

Severe Tawny rust infection by has been recorded on varieties N25 and N46 and the disease has also been observed on N12, N31, N41, N43, N46, N49, N53.

BELANGRIKE KENNISGEWING: DIE VOLGENDE INLIGTING (INSLUITEND WAARSKUWINGS, VOORSORGMATREËLS, GEBRUIKSBEPERKINGS EN GEBRUIKSAAWYSINGS) MOET NOUKEURIG GELEES EN DUIDELIK VERSTAAN WORD VOOR GEBRUIK VAN HIERDIE PRODUK. IN DIE GEVAL VAN ENIGE ONDUIDELIKHEID KONTAK DIE REGISTRASIE HOUER ONMIDDELIK.

WAARSKUWINGS

Gevaarstellings: Kan skadelik wees in kontak met vel. Veroorsaak ligte velirritasie. Word daarvan verdink dat hy kanker veroorsaak. Baie giftig vir waterlewe. Giftig vir waterlewe met langdurige effekte.

VOOR-OES-INTERVAL:

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

Gars	70
Mielies en suikermielies	30
Sojabone	39
Suikerriet	60
Koring	60

Hanteer versigtig.

Hou buite bereik van kinders, oningeligte persone en diere.

Stoor weg van kos en voer.

Herbetreding: Moenie behandelde gebied betree binne 2 dae nabespuiting, tensy beskermde oorklere gedra word.

Moenie behandelde gewas lande laat bewei of as voer gebruik nie.

Lugtoediening:

Verwittig en waarsku alle inwoners in die onmiddelijke area van die beoogde toedienings en reik die nodige waarskuwings uit.

Moenie spuit oor aangrensende areas, of water, of toelaat dat spuitstof daaroor waai nie.

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

VOORSORGMATREËLS

Voorsorgstellings

Algemeen: Indien mediese advies benodig word, hou produkhouer of etiket byderhand. Hou buite bereik van kinders. Lees etiket voor gebruik.

Voorkoming: Kry spesiale instruksies voor gebruik. Moet nie hanteer voordat alle veiligheidsmaatreëls gelees en verstaan is nie. Vermoë vrylating na die omgewing. Dra beskermende handskoene/beskermende klere/oogbeskerming/gesigbeskerming.

Reaksie: INDIEN blootgestel of bekommerd: Kry mediese advies/aandag. Bel 'n gifsentrum of dokter as jy onwel voel. Indien velirritasie voorkom: Kry mediese advies/aandag. Versamel mors. Berg in 'n goed geventileerde plek.

Berging: Stoor toegesluit.

Disposal: Gooi inhoud en houer weg na 'n goedgekeurde afvalverwyderingsaanleg.

- Vermoë besmetting van mense- of dierevoedsel, voer, eetgerei of drinkwater.
- Spuitnewel moet nie ingesam, of toegelaat word om te versprei oor enige nie-teigekende areas soos watergebiede, weiding of ander gewasse nie.
- **SPOEL die leë houer DRIEKEER UIT soos volg:** Keer die leë houer om oor die spuit- of mengtenk en dreineer vir ten minste 30 sekondes nadat die vloeitot drup verlangsam het. Spoel die leë houer daarna drie keer agtereenvolgens uit met een kwart van die houervolume vars water en gooi die spoelwater in die spuit- of mengtenk. Prik die drievoudig uitgespoelde houer deur

en gooi weg via 'n goedgekeurde versamelaar of herwinner (www.croplife.co.za). Moet nie die houer begrawe, verbrand of skenk aan enige ander partye wat dit as 'n houer vir kos of drank kan gebruik nie.

- Vernietig leë houer en moet vir geen ander doel gebruik nie.

RELEVANTE STOWWE

NAAM	PRODUK IDENTIFISEERDER
Epoksikonasool TS	CAS-Nr.: 133855-98-8
Pyraklostrobien TS	CAS-Nr.: 175013-18-0
Tensiofix DB08	-
1,2 Propaanediol	CAS-Nr.: 57-55-6
Silikondioksied, amorf	CAS-Nr.: 7631-86-9

NOODHULPBEHANDELING

Verwyder die pasiënt van die bron van vergiftiging en hou hom ontspanne en rustig.

Oogkontak: Spoel oë met skoon water vir ongeveer 20 minute, terwyl jy die ooglid per geleentheid oopmaak. Indien irritasie voortduur, moet 'n oogspesialis geraadpleeg word.

Velkontak: Spoel besmette liggaamsarea met baie seep en koue water af. Moenie die vel vryf nie. Plaas olyfolie of die geaffekteerde areas vir vinnige verligting. Indien irritasie voortduur moet 'n mediese geneesheer genader word.

Inaseming: Verwyder die pasiënt na waar daar vars lug is. Indien pasiënt sukkel om asem te haal of daar 'n irritasie merkbaar is, moet die mediese geneesheer geraadpleeg word.

Inname per mond: Moenie braking veroorsaak nie. Indien die pasiënt wakker is, spoel die mond deeglik uit met water and gee hom 1 tot 2 glase water om te drink. Moenie enige iets deur die mond toedien, wanneer die persoon bewusteloos is nie. Verkry onmiddellik geneeskundige hulp.

NOTA AAN GENEESHEER:

Daar is geen spesifieke teenmiddel beskikbaar nie. Behandel ooreenkomstig die simptome. (ontsmetting, lewensfunksie).

WEERSTANDSWAARSKUWING EN DIE BESTUUR DAARVAN

CALCULUS 125 SE bevat FRAC Groepkodes 3 & 11 swamdoders. Enige populasie van 'n spesifieke swam kan individue bevat wat natuurlik weerstandig is teenoor **CALCULUS 125 SE** en ander swamdoders van die volgende Groepkodes 3 & 11. Daarom, indien hierdie swamdodes herhaaldelik en uitsluitlik in die spuitprogram gebruik word, is dit moontlik dat hierdie weerstandigheidsindividue uiteindelik die swampopulasie kan oorheers. Hierdie weerstandigheids-swamme mag dalk nie deur **CALCULUS 125 SE** Of enige ander swamdoders van Groepkodes 3 & 11 gekontroleer word nie.

Om die swamdoderweerstand te vertraag of uit te stel:

- Vermoed die eksklusiewe en herhaaldelike gebruik van swamdoders van dieselfde Swamdoder Groepkode. Wissel af of gebruik produkte van verskillende Swamdoder Groepkodes om die tenkmengsel mee te meng.
- In geval van tenkmengsels of afwisseling met produkte van ander Swamdoder Groepkodes, verwys na die toepaslike individuele produkietiket.
- Pas die konsep van Geïntegreerde Plaagbeheer toe, waardeur ander beheermaatreëls (chemiese, kulturele, biologiese) geïntegreer word in die siektebeheerprogram.

Anti-weerstandigheidsstrategie:

Ten einde die effektiwiteit van **CALCULUS 125 SE** te handhaaf, is dit noodsaaklik om die ontwikkeling van weerstandigheid van die siektes op swamdoders te verhoed van DMI (triasool-) en QOI-swamdoder-groepe (FRAC Groepkodes 3 & 11). Dit kan gehelp word deur:

- Moet nooit die aanbevole dosis verminder as wat voorgeskryf is op die etiket nie.
- Moet nooit ander DMI (triasool-) of QOI-swamdoders, of verwante swamdoders, in dieselfde program met **CALCULUS 125 SE** gebruik nie.
- Moenie twee toedienings van **CALCULUS 125 SE** per seisoen oorskry nie.

KONTAK DIE REGISTRASIEHOUER VIR MEER INLIGTING RAKENDE DIE WEERSTANDIGHEIDSBESTUUR PROGRAM.

WYSE VAN AKSIE

Pyraklostrobien: Kinoon buite inhibeerder. Inhibeer mitochondriale respirasie deur elektronoordrag by die sitochroom bc1-kompleks

te blokkeer. Swamdoder met beskermende, genesende en translaminêre eienskappe. Veroorsaak ook fisiologiese effekte soos vertraagde veroudering, groener blare, beter verdraagsaamheid teen biotiese en abiotiese stres, sowel as meer doeltreffende gebruik van water en stikstof. **Epoksikonasool:** Inhibisie van C-14-demetielase in sterolbiosintese. Voorkomende en genesende swamdoder.

GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS VOORGESKRYF

Algemene Inligting:

Pyraclostrobin, wat een van die aktiewe bestanddele van **CALCULUS 125 SE**, is, en dit het getoon dat dit sekere effekte op die fisiologie van verskeie gewasse het, wat tot hul kommersiële voordeel kan strek. In sekere lande, is pyraclostrobin geregistreer en aanbeveel as 'n gesondheidskuurplant, om oeste te vermeerder.

Verenigbaarheid:

CALCULUS 125 SE is verenigbaar met produkte wat glifosaat en alpha-cypermethrin bevat. In die geval van ander onkruidmiddels, insekdoders en mieldoder, word dit aanbeveel dat die verenigbaarheid van **CALCULUS 125 SE** getoets behoort te word op 'n klein skaal voordat dit op 'n groot skaal gebruik word in spuitmengsels.

Dit is nie nodig om enige addisionele landboukundige hulpmiddels te gebruik omdat die **CALCULUS 125 SE** formulase alreeds maksimum hoeveelhede van bymiddels bevat. Die enigste uitsondering is wanneer vloeibare (50%) hoë kwaliteit ammonium sulfaat in 'n tenk gemeng word in streke waar dit bekend is dat die waterkwaliteit swak is. Onder sulke omstandighede moet die water versag word voordat **CALCULUS 125 SE** bygevoeg word.

Menginstruksies:

Maak spuittenk halfvol met skoon water. Meet die aanbevole hoeveelheid **CALCULUS 125 SE** af en meng dit vooraf met minstens 10ℓ water. Voeg hierdie mengsel by die water alreeds in die spuit tenk terwyl dit aanhoudend geroer word. Vul die spuittenk met water en hou aan roer ten einde deeglike vermenging van die spuitmengsel te verseker voordat met bespuiting begin word. Handhaaf roering deurgaans gedurende die spuitproses. Die spuitmengsel moet gebruik word op dag van vermenging en moet nie vir enige bepaalde tyd in die spuittenk gelos word nie, bv. oornag.

Lugtoediening:

Lugtoediening van **CALCULUS 125 SE** mag slegs deur 'n geregistreerde lugbespuitingsoperateur wat 'n korrek gekalibreerde, geregistreerde vliegtuig, volgens die instruksies van SANS Kode 10118 (Aerial Application of Agricultural Pesticides) geskied. Verseker dat die spuitmengsel eweredig oor die teiken area versprei word en dat die verlies van spuitmengsel gedurende toediening tot minimum beperk word. Dit is daarom belangrik om aan die volgende vereistes te voldoen:

- **Volume:** 'n Spuit volume van 30 - 40ℓ per hektaar word aanbeveel. Die registreasihouer kan nie die effektiwiteit waarborg of verantwoordelik gehou word vir enige nadelige effekte indien hierdie produk teen 'n laer volume as hierbo aanbeveel word toegedien word.
- **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 tot 'n minimum aangesien hierdie 'n hoë drying en verdampingspotensiaal het.
- **Vlieghoogte:** Handhaaf die hoogte van die spuitbaak op 3 - 4 meter bo die teiken. Moenie spuit terwyl die vliegtuig duik, klim of draai nie.
- Gebruik geskikte atomiseringsapparaat, wat die vereiste druppelgrootte en bedekking sal produseer, maar die minste verlies van produk sal verseker. Die spuitsistiem moet 'n druppelspektrum met die laagste Relatiewe Span verseker.
- Plaas die atomiseerders in die binneste 60 - 75 % van die vlerkspan om te verhoed dat die druppels binne-in die vlerkpunt vorteks in beweging.
- Die verskil in temperatuur tussen die nat en droëboltermometer van 'n swaaihiogrameter, moenie 8 °C oorskry nie.
- Staak bespuiting, indien die windspoed 15 km / h oorskry.
- Staak bespuiting onder turbulensie, onstabiele en droë toestande, gedurende die hitte van die dag.
- Bespuiting onder toestande temperatuur inversie toestande (deur bo of binne die inversie lag te spuit) en / of hoë lugvogtoestande (relatiewe humiditeit 80% en meer) mag tot die volgende problem aanleiding gee:
- Verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken).
- Skade aan ander sensitiewe gewasse of nie-geteikende areas as gevolg van wegdrying van die spuitwolk na die nie geteikende area.
- Verseker dat die lugbespuitingsoperateur presies weet watter lande bespuit moet word.
- Dit is noodsaaklik om 'n versekering van die lugbespuitingsoperateur te verkry wat aan al die bogenoemde vereistes voldoen en dat relevante data in 'n logboek aangeteken sal word vir verder toekomstige verwysing.

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

Vir alle gewasse en siektes, moenie twee toedienings van CALCULUS 125 SE per seisoen oorskry nie.

GEWAS	SIEKTE	Dosis ℓ / ha	AANWYSING VIR TOEDIENING
GARS	Blaarvlek (<i>Rhynchosporium secalis</i>)	1,0	Voorkoemde toediening, of by eerste tekens van siekte. at ver disease. Indien hoë infeksie druk voorkom, dien 'n tweede bespuiting, 3 – 4 weke later toe. Grondtoediening: Dien toe in 200 – 400 ℓ water / ha. Lugtoediening: Dien toe in 30 - 40 ℓ water / ha.
	Bruinroes (<i>Puccinia hordei</i>)	1,0	Dien sodra infeksie waargeneem word toe en herhaal, 3 - 4 weke later indien nodig. Grondtoediening: Dien toe in 200 - 400 ℓ water / ha. Lugtoediening: Dien toe in 30 - 40 ℓ water / ha.
	Netvlek (<i>Pyrenophora teres</i>)	1,0	Voorkoemde toediening, of by eerste tekens van siekte Herhaal die toediening, 3 - 4 weke later. Grondtoediening: Dien toe in 200 - 400 ℓ water / ha. Lugtoediening: Dien toe in 30 – 40 ℓ water / ha.
	Poeieragtige skimmel (<i>Erisiphe graminis</i>)	1,0	Dien sodra infeksie waargeneem word toe en herhaal, 3 - 4 weke later indien nodig. Grondtoediening: Dien toe in 200 - 400 ℓ water / ha. Lugtoediening: Dien toe in 30 – 40 ℓ water / ha.

SOJABONE	Soja boon roes (<i>Phakopsora pachyrhizi</i>)	1,0 ℓ	Voorkomende bespuiting voor eerste tekens van siekte opgemerk word (gewoonlik by begin van blom) en herhaal 21 – 28 dae later Die korter interval van 21 dae is vir wanneer hoë siekte druk verwag word, as gevolg van weersomstandighede wat siekte ontwikkeling bevoordeel. Hierdie program sal ook die voorkoms van Sclerotinia (<i>Sclerotinia sclerotiorum</i>) verminder. Grondtoediening: Dien toe as 'n volbedekking bespuiting in 150 - 300 ℓ water / ha. Gebruik goed onderhoude, kwaliteit toerusting en dien toe as 'n fyn en eweredig verspreide spuit patroon op die plant oppervlak.
SUIKERRIET	Bruin roes (<i>Puccinia melanocephala</i>) Geelbruin roes (<i>Puccinia spp.</i>) Verwys na Nota hieronder	1,6 ℓ	Dien twee bespuitings toe. Die eerste bespuiting is voorkomend by die 4 – 6 blaar stadium van die suikerriet of met die eerste tekens van bruin roes infestasië. Die tweede toediening moet geskied een maand na die eerste. 'n Voorkomende toediening vir die beheer van Geelbruin roes word sterk aanbeveel. Hierdie siekte ontwikkel vinnig en daarom mag 'n genesende toediening nie die verlangde resultate lewer nie Grondtoediening: Dien toe as volbedekking in 200ℓ water / ha. Lugtoediening: Dien toe in 30 – 40 ℓ water / ha.
KORING	Spikkelde blaar vlek en Glume vlek (<i>Septoria spp.</i>) Bruin roes / Blaar roes (<i>Puccinia triticina</i>) Stam roes (<i>Puccinia graminis</i>) Poeieragtige meeldou (<i>Erysiphe graminis</i>) Geel roes / Streep roes (<i>Puccinia striiformis</i>)	1,0ℓ	Begin toediening met eerste tekens van infeksie, maar nie later as vlagblaar verskeining nie. 'n Tweede bespuiting kan gemaak word 3 – 5 weke later indien hoë siekte druk voorkom. Grondtoediening: Dien toe in 200 - 400 ℓ water / ha. Lugtoediening: Dien toe in 30 – 40 ℓ water / ha.

Nota:

- Geelbruin roes op suikerriet (voorheen bekend as as Afrikaanse roes), kan voorkom in al die produksie areas van Suid Afrika. 'n Definisie en volle beskrywing van hierdie spesies is huidiglik in vordering. Hierdie roes het unieke simptome en kan maklik onderskei word van Bruin roes, deur die volgende visuele karaktereenskappe:
- Die roes puieties op die blaar oppervlak kom voor op beide die bo en onderkant van die blare.
- Die roes puieties op beide blaaroppervlaktes is duidelik oranje in kleur wanneer hulle opbars.
- Erge Geelbruin roes infeksie is opgeteken op varieteite N25 en N46 en die siekte is ook opgemerk op N12, N31, N41, N43, N46, N49, N53.

CALCULUS® 125 SE

Reg. No. / Nr L10314 Act No. 36 of 1947/ Wet Nr 36 van 1947

FUNGICIDE



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

FRAC FUNGICIDE GROUP CODE:

11 & 3

FRAC SWAMDOEDERGROEP KODE:

A suspo-emulsion contact and translaminar fungicide for the preventative control of diseases on barley, maize, soybeans, sugarcane and wheat.

'n Suspo-emulsie kontak- en translaminêreswamdoder vir die voorkomende beheer van siektes op gars, koring, mielies, sojabone en suikerriet.

ACTIVE INGREDIENT/AKTIEWE BESTANDEEL:

Epoxiconazole (triazole)..... 62,5 g/ℓ
Pyraclostrobin (methoxy-carbamates) 62,5 g/ℓ



WARNING

Hazard Statements:

May be harmful in contact with skin.
Causes mild skin irritation.
Suspected of causing cancer.
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

Precautionary Statements:

IF exposed or concerned: Get medical advice/attention.
Call a poison centre or doctor if you feel unwell.
If skin irritation occurs: Get medical advice/attention.

Batch No:

D.O.M:

D.O.E:

Net Contents:

See reverse of packaging for details.

FOR FULL PARTICULARS SEE ATTACHED PAMPHLET.
VIR VOLLEDIGE BESONDERHEDE KYK AANGEHEGTE ETIKET.

UN No. / VR Nr: 3082

Poison Information Helpline (24 hrs): 0861 555 777



REGISTRATION HOLDER/ REGISTRASIEHOUER
Cedar Falls Properties 130 (Pty) Ltd
Reg. Nr.: Reg. No. 2006/031383/07
61 Marshall Drive, Old Mill Industrial Park,
Mount Edgecombe, South Africa, 4300
Tel: 031 003 3486



BARCODE

100320

165(H) x 140(W) mm

CYAN

MAG

YEL

BLK

100320