



BASF

The Chemical Company

Flite[®] FS

Reg. No.: L4965; N -AR 0876

Act No. 36 of 1947

FRAC FUNGICIDE GROUP CODE 3

A systemic fungicidal seed dressing, for the control of various diseases.

Active ingredient:

Aktiewe bestanddeel:

Triticonazole (triazole) 200 g / l

Reg. Nr: L4965

Wet Nr 36 van 1947

FRAC SWAMDODERGROEPKODE 3

'n Sistemiese swamododende saadbehandeling, vir die beheer van verskeie siektes.

Registered by / Geregistreer deur:

BASF South Africa (Pty) Ltd.,

Co. Reg. No. / Mpy Reg. Nr 66/10235/07

P.O. Box / Posbus 2801, Halfway House / Halfweghuis 1685

Batch Number / Lotnommer:

Date manufactured / Datum vervaardig:

EMERGENCY NUMBER / NOODNOMMER: 083 265 3805

UN No. / VN Nr: 3082

Approval code: 20/08/2005.

5 l

*Registered Trade Mark of BASF / Geregistreerde Handelsmerk van BASF

81087855ZA1074



**CAUTION
VERSIGTIG**





WARNINGS

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

Barley	180
Wheat	180

- Treat only seed that is to be used for planting or sowing purposes.
- Never use treated seed for consumption or animal feed.
- Treated seed should not be carried over from one season to the next.
- Handle with care.
- Harmful when swallowed, inhaled or absorbed through the skin.
- Toxic to fish and wildlife.
- Store away from food and feedstuffs and in a cool place.
- Keep out of reach of children, uninformed persons and animals.

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 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 or 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

- Avoid prolonged or repeated skin contact. Wear a face shield and rubber gloves when treating seed. Ensure good general ventilation of the work place.
- Do not eat, drink or smoke whilst mixing or before washing hands.
- Wash thoroughly after handling and change contaminated clothing daily.
- Prevent contamination of food, eating utensils, feed and drinking water.
- Bury all treated seed spilled on soil surface.
- When empty, invert the container over the mixing tank and allow it 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 water equal to at least one tenth of that of the container and add the rinsings to the contents of the mixing tank Destroy the container by puncturing and burying or burning it. Do not use the container for any other purpose.





- Handle treated seed carefully and clearly mark the bags that contain treated seed “POISONOUS”.
- Do not re-use bags for any other purpose.

RESISTANCE WARNING

For resistance management, Flite® FS is a FRAC Group Code 3 fungicide. Any fungal population may contain individuals naturally resistant to Flite® FS and other Group Code 3 fungicides. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi may not be controlled by Flite® FS or any other Group Code 3 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.
- 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 remarks

Flite® FS is a systemic fungicidal flowable seeddressing for the control of the following diseases:

- Loose and covered smut in barley.
- Loose and stinking smut in wheat.
- Leaf spot in barley.
- Powdery mildew in wheat and barley.
- Speckled leaf blotch in wheat.
- Stripe rust in wheat.

AUTOMATIC SEED TREATING MACHINES

Calibrate the delivery rate of seed and fungicide to ensure the correct dose rate. Check the calibration of the machine at regular intervals. To ensure good coverage of the seed **Flite® FS** must be diluted with sufficient water depending on the efficiency of the delivery system in the seed treating machine. A final volume of 150 up to a maximum of 600 mℓ mixture per 100 kg seed is recommended.





CEMENT MIXERS AND ROTATING DRUMS

Do not fill the drum more than two thirds of its volume with seed. Apply **Flite® FS** in sufficient water to ensure good coverage of the seed. A final volume of 150 up to a maximum of 600 m ℓ mixture per 100 kg seed is recommended. Rotate the drum or cement mixer until the fungicide mixture has dried on the seed. Do not over-mix the seed. Dilution with the recommended amount of water will have no adverse effect on germination or storage of seed. Seed can be treated directly before planting or earlier without any loss in fungicidal activity or reduced germination.

STORAGE

After mixing collect dried-off seed in bags and store under cool and dry conditions. All bags must be labelled according to the SANSOR / AVCASA guidelines.

COLOUR ENHANCEMENT

Wheat seed treated at 25 m ℓ of **Flite® FS** / 100 kg seed and barley seed treated at 75 m ℓ **Flite® FS** / 100 kg seed, will be poorly coloured. In order to improve seed colouring, it is recommended that Colanyl® Red FGR dye at the rate of 5 m ℓ / 100 kg seed be added to the **Flite® FS** and then diluted with water prior to application.

DO NOT EXCEED THE RECOMMENDED RATES. Over-dosing with Colanyl® Red FGR can cause a reduction in the coleoptile length.

IMPORTANT NOTES

- Some disease may appear on the first 2-4 leaves, depending on the rate of growth. This delay in control is influenced by the rate at which the active ingredient of **Flite® FS** is absorbed by the developing roots.
- When **Flite® FS** is mixed as a seed treatment with micronutrients with a pH of 7 or higher, degradation of active ingredient on the seed will be accelerated, but this will not be a factor if the mixing takes place just prior to seeding or planting.
- If soil surface compaction occurs between planting and seedling emergence this compaction must be broken by means of a suitable implement.
- Do not use **Flite® FS** on seed with poor germination potential and vigour.
- A reduction in the length of the coleoptile may occur in certain wheat cultivars following treatment with **Flite® FS**. Consequently treated seed should preferably not be planted deeper than 30 mm and definitely not deeper than 50 mm, as this could have a negative influence on seedling emergence.
- If seed is not to be planted immediately after treatment, do not exceed the recommended water volumes as this may cause insufficient drying of the seed, which could result in reduced germination.





- The use of more than one seed treatment on the same seed increases the risk of reduced seedling emergence.
- Combinations of two or more of the factors mentioned above (i.e., seed with low vigour, deep planting, exceeding the recommended water volumes, more than one seed treatment) can be expected to compound any negative effects on emergence and plant population and must be avoided.

Abacus®, **Duett®** and **Opus®** are Registered Trade Marks of BASF.
Colanyl® Red FGR 131 is a Registered Trade Mark of Clariant Southern A

CROPS	DISEASE	DOSAGE	DIRECTIONS FOR APPLICATION
BARLEY	Seed borne diseases: Covered smut <i>(Ustilago hordei)</i> Loose smut <i>(Ustilago nuda)</i>	75 ml / 100 kg seed (refer to COLOUR ENHANCEMENT)	Ensure complete coverage of the seed with Flite®FS seed dressing. Control of leaf spot and powdery mildew can be obtained up to the 5 leaf stage (GS 6-8). Application of a suitable foliar fungicide e.g. Abacus® (L8048) and Opus® (L6992) will be required to provide extended control up to ear emergence (GS 20). See IMPORTANT NOTES BELOW.
	Foliar diseases: Leaf spot <i>(Rhynchosporium secalis)</i> Powdery mildew <i>(Erysiphe graminis)</i>	150 ml / 100 kg seed	Control of leaf spot and a delay in the onset of powdery mildew will be obtained up to the 7-leaf stage (GS 13-15). Application of a suitable foliar fungicide for extended control will depend on disease severity and climatic conditions. See IMPORTANT NOTES BELOW.





CROPS	DISEASE	DOSAGE	DIRECTIONS FOR APPLICATION
WHEAT	Seed borne diseases: Loose smut (<i>Ustilago tritici</i>) Stinking smut (<i>Tilletia caries</i> and <i>T. foetida</i>) Foliar diseases: Powdery mildew (<i>Erysiphe graminis</i>) Speckled leaf blotch (<i>Septoria tritici</i>) Stripe rust (<i>Puccinia striiformis</i>)	25 ml / 100 kg seed (refer to COLOUR ENHANCEMENT) 120 ml / 100 kg seed	Ensure complete coverage of the seed with Flite®FS seed dressing. See IMPORTANT NOTES below. Ensure complete coverage of the seed with Flite®FS seed treatment. Control of powdery mildew, speckled leaf blotch and stripe rust can be obtained up to the 8-leaf stage (GS 16). The duration of control will depend on the planting date, climatic conditions and the susceptibility of the variety planted. See IMPORTANT NOTES below. To extend the duration of control, foliar application of Opus® or Duett® (L5791) is recommended.





WAARSKUWINGS

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

Gars	180
Koring	180

- Behandel slegs saad wat geplant / gesaai gaan word. Moet nooit behandelde saad as voer of voedsel gebruik nie.
- Moet nooit behandelde saad as voer of voedsel gebruik nie.
- Moenie behandelde saad van een seisoen na die ander oordra nie.
- Hanteer versigtig.
- Skadelik indien ingesluk, ingeasem of deur die vel geabsorbeer word.
- Skadelik vir visse en natuurlewe.
- Berg in 'n koel plek, weg van voedsel en voer.
- Hou buite bereik van kinders, oningeligte persone en diere.

Alhoewel hierdie middel omvattend en 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 beïnvloed kan word deur faktore soos abnormale grond, klimaats- en bergingstoestande, kwaliteit van verdunningswater, saambruikbaarheid met ander stowwe wat nie op die etiket aangedui is nie, en die voorkoms van weerstand van 'n 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 'n gebrek aan prestasie as gevolg van die versuim van die gebruiker om etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in die geval van enige onsekerheid.

VOORSORGMAATREËLS

- Vermyn langdurige of herhaaldelike kontak met die vel. Dra 'n gesigskerm en rubberhandskoene wanneer saad behandel word. Verseker goeie ventilasie van die werksgebied.
- Moenie eet, drink of rook gedurende toediening of voordat hande gewas is nie.
- Was deeglik na hantering en vervang besoedelde klere daaglik.
- Verhoed besoedeling van voedsel, eetgerei, voer en drinkwater.
- Begrawe behandelde sa ad wat op die grondoppervlak beland.





- Sodra die houer leeg is, keer dit om oor die mengbak en dreineer vir minstens 30 sekondes nadat die vloei tot 'n gedrup verminder het. Spoel die houer daarna driekeer uit met 'n volume water gelyk aan minstens 'n tiende van die houer en gooi die speelwater by die inhoud van die mengbak. Vernietig die houer deur gate daarin te maak en te begrawe of te verbrand. Moenie die houer vir enige ander doel gebruik nie.
- Hanteer behandelde saad versigtig. Merk sakke wat behandelde saad bevat duidelik GIFTIG*.
- Moenie sakke vir enige ander doel hergebruik nie.

WEERSTANBIEDENDEIDSWAARSKUWING

Vir weerstandsbestuur is Flite® FS 'n FRAC Groepkode 3 swamdoder. Enige populasie van 'n spesifieke swam mag individue insluit wat 'n natuurlike weerstand teen Flite® FS, of enige ander Groepkode 3 swamdoder het. Indien hierdie swamdoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die swampopulasie oorheers. Hierdie weerstandbiedende swamme sal moontlik nie deur Flite® FS of enige ander Groepkode 3 swamdoder beheer word nie.

Om weerstand teen swamdoders te verhoog:

- Vermoë die eksklusiewe herhaaldelike gebruik van swamdoders in dieselfde Swamdodergroepkode. Wissel af met, of gebruik tenkengsels van produkte in verskillende Swamdodergroepkodes.
- Integreer ander beheermaatreels (chemies, verbouing, biologies) in siektebeheerprogramme.

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

GEBRUIKSAANWYSINGS :

GEBRUIK SLEGS SOOS VOORGESKRYF

Algemene opmerkings:

Flite® FS is 'n sistemiese swamdoderende vloeibare saadbehandeling vir die beheer van die volgende siektes:

- Los- en bedekte brand op gars.
- Los- en stinkbrand op koring.
- Blaarvlek op gars.
- Poeieragtige skimmel op koring en gars.
- Vaalblaar op koring.
- Streeproes op koring.





OUTOMATIESE SAADBEHANDELINGSMASJIENE

Kalibreer die leweringstempo van saad en swamdoder om die korrekte dosis te verseker. Gaan die masjien met gereelde tussenposes na om te verseker dat die korrekte dosis deurgaans toegedien word. Om goeie saadbedekking te verseker, moet **Flite® FS** met voldoende water verdun word afhange van die doeltreffendheid van die masjien se leweringstelsel. 'n Finale volume van 150 tot 'n maksimum van 600 ml mengsel / 100 kg saad word aanbeveel.

SEMENTMENGERS EN DRAAIDROMME

Moenie die drom met meer as twee derdes van sy volume met saad vul nie. Dien **Flite® FS** toe in voldoende water om goeie bedekking te verseker. 'n Finale volume van 150 tot 'n maksimum van 600 ml mengsel / 100 kg saad word aanbeveel. Draai die drom of sementmenger totdat die swamdodermengsel droog is op die saad. Moenie saad oorvermeng nie. Verdunning met die aanbevole hoeveelheid water sal geen nadelige effek op ontkieming of opberging van saad hê nie. Saad kan behandel word direk voor plant of vroeër sonder enige verlies aan swamdoderaktiwiteit of verlaagde ontkieming.

OPBERGING

Na vermenging, versamel afgedroogde saad in sakke en stoor onder koel droë toestande. Alle sakke moet duidelik volgens die SANSOR / AVCASA riglyne gemerk word.

BEVORDERING VAN KLEUR

Koringsaad behandel teen 25 ml **Flite® FS** / 100 kg saad en garssaad behandel teen 75 ml **Flite® FS** / 100 kg saad sal swak verkleur. Om saadverkleuring te verbeter, word dit aanbeveel dat Colanyl® Red FG kleurstof teen 5 ml / 100 kg saad by die **Flite® FS** gevoeg word en dan met water verdun word, voor toediening.

MOENIE DIE AANBEVOLE DOSIS OORSKRY NIE. 'n Verhoogde dosis van Colanyl® Red FGR kleurstof kan lei tot 'n vermindering van die koleoptielengte.





GEWAS	SIEKTE	DOSIS	GEBRUIKSAANBEVELINGS
GARS	Saadgedraagde siektes: Bedekte brand (<i>Ustilago hordei</i>) Losbrand (<i>Ustilago nuda</i>)	75 ml / 100 kg saad (verwys na BEVORDERING VAN KLEUR)	Verseker algehele bedekking van die saad met Flite® FS saadbehandeling. Beheer van blaarvlek en poeieragtige skimmel sal verkry word tot by die 5-blaarstadium (GS 6-8). Blaartoediening van 'n geskikte swamdoder bv. Abacus® (L8048) en Opus® (L6992) sal nodig wees vir verlengde beheer tot by aarverskyning (GS 20). Kyk BELANGRIKE NOTAS.
	Blaarsiektes: Blaarvlek (<i>Rhynchosporium secalis</i>) Poeieragtige skimmel (<i>Erysiphe graminis</i>)	150 ml / 100 kg saad	Beheer van blaarvlek en 'n vertraging in die ontwikkeling van poeieragtige skimmel sal verkry word tot by die 7 blaarstadium (GS 13-15). Aanvullende blaarbespuitings met 'n geskikte swamdoder sal ahang van die siektedruk en omgewingstoestande. Kyk BELANGRIKE NOTAS.





GEWAS	SIEKTE	DOSIS	GEBRUIKSAANBEVELINGS
KORING	Saadgedraagde siektes: Losbrand (<i>Ustilago tritici</i>) Stinkbrand (<i>Tilletia caries</i> en <i>T. foetida</i>)	25 ml / 100 kg saad (verwys na BEVORDERING VAN KLEUR)	Verseker algehele bedekking van die saad met Flite® FS saadbehandeling. Kyk BELANGRIKE NOTAS hieronder.
	Blaarsiektes: Poeiragtige skimmel (<i>Erysiphe graminis</i>) Vaalblaar (<i>Septoria tritici</i>) Streeproes (<i>Puccinia striiformis</i>)	120 ml / 100 kg saad	Verseker algehele bedekking van die saad met Flite® FS saadbehandeling. Beheer van vaalblaar, poeieragtige skimmel en streeproes kan verkry word tot by die 8-blaarstadium (GS 16). Die tydperk van beheer sal afhang van die plantdatum, omgewingstoestande en die vatbaarheid van die variëteit wat geplant word. Kyk BELANGRIKE NOTAS hieronder. Om verlengde beheer te verseker word aanbeveel dat 'n blaarbespuiting van Opus® of Duett® (L5791) toegedien word.





BELANGRIKE NOTAS

- 'n Mate van siekte mag voorkom op die eerste 2 - 4 blare afhangende van die groeitempo. Hierdie vertraging in beheer word beïnvloed deur die tempo waarteen die aktiewe bestanddeel van **Flite®FS** deur die ontwikkelende wortels opgeneem word.
- Wanneer **Flite®FS** as 'n saadbehandeling gemeng word met mikro-elemente met 'n pH van 7 of hoër, sal die afbraak van die aktiewe bestanddeel op die saad versnel, maar dit sal nie 'n faktor wees as die vermenging net voor plant of saai plaasvind nie.
- Indien verdigting van die grondoppervlak voorkom tussen plant en die verskyning van saailinge, moet hierdie verdigting met 'n geskikte implement opgebreek word.
- Moenie **Flite®FS** gebruik op saad met swak potensiaal vir ontkieming en groeikragtigheid nie.
- 'n Vermindering van die koleoptiellengte mag voorkom by sekere koringkultivars na behandeling met **Flite®FS**, gevolglik moet behandelde saad verkieslik nie dieper as 30 mm, maar beslis nie dieper as 50 mm geplant word nie, aangesien dit 'n negatiewe invloed op die opkom van saailinge kan hê.
- Indien die saad nie onmiddellik na behandeling geplant gaan word nie, moet die aanbevole watervolumes tydens behandeling nie oorskry word nie, aangesien dit onvoldoende afdroging van die saad mag veroorsaak wat kan lei tot swakker ontkieming.
- Die gebruik van meer as een saadbehandeling op dieselfde saad sal die risiko van plantestandvermindering verhoog.
- Daar kan ver wag word dat kombinasies van twee of meer van bogenoemde faktore (d.w.s., swak saad, diep plant, hoër watervolumes as wat aanbeveel word, meer as een saadbehandeling) 'n negatiewe invloed kan hê by die opkom en plantestand en dit moet vermy word.

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