

EXCELION

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY

VERWYS NA BESONDERHEDE SOOS OP HOUER / SAK GEDRUK


GEBRUIKSAANWYSINGS INGESLUIT
Lotonommer
Datum van vervaardiging

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

DIRECTIONS FOR USE ENCLOSED
Batch Number
Date of manufacture

EXCELION

FUNGICIDE



Reg. No. L10666, Act/Wet No. 36 of/van 1947 1:29/05/2019


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

'n Suspensiekonsentraat, sistemiese swamdoder vir die beheer van swamsiektes op gewasse soos aangedui.


FRAC FUNGICIDE GROUP CODE	11;3	FRAC SWAMDODER GROEPKODE
ACTIVE INGREDIENTS / AKTIEWE BESTANDELE		
Azoxyastrobin (strobilurin)	200 g/ℓ	Asoksistrobien (strobilurien)
Epoxiconazole (triazole)	200 g/ℓ	Epoksikonasool (triasool)

Registration Holder / Registrasiehouer
Meridian Agrochemical Company (Pty.) Ltd. / (Edms.) Bpk.
Reg. No. 2000/010819/07
P.O. Box / Posbus 436, Modderfontein, 1645, South Africa / Suid-Afrika


ℓ



UN Number: 3082



CAUTION / VERSIGTIG



WARNINGS

Withholding periods

Allow the following number of days between last application and harvest:

Maize.....30 days

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

- Handle with care.
- Harmful if swallowed, inhaled or when absorbed through the skin.
- Toxic to fish, harmful to other aquatic life. May cause long-term adverse effects in aquatic environments.
- Avoid contact with skin or eyes by wearing protective clothing.
- Store in the original container under lock-and-key in a cool, dry, well-ventilated place away from food, seed, feed and other agricultural remedies.
- Keep away from children, uninformed persons and animals.
- **Re-entry:** Do not enter treated area until spray deposit has dried unless wearing protective clothing.
- **Aerial application:** Notify all the inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow the drift to contaminate water or adjacent areas.

Although this remedy has been extensively 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 the application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS

- Avoid contact with eyes and skin.
- Avoid inhalation of fumes and spray mist.
- Wear protective clothing (e.g. rubber gloves, boots) and face shield when handling the concentrate, preparing the spray mixture and during spraying.
- In case of direct contact with skin, wash immediately with soap and water.
- In case of direct eye contact, rinse for at least 15 minutes with clean water holding the eyelid(s) open, remove contact lenses if present. Obtain medical assistance if irritation persists.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while preparing or applying the spray mix or before washing face and hands.
- Avoid drift of spray mist onto other crops, grazing, rivers, dams and other areas not under treatment.
- Clean equipment before and after use. Dispose of wash water where it will not contaminate crops, pastures, rivers, dams or other water sources.
- Invert the empty container over the spray tank and allow to drain for at least 30 seconds after the flow has slowed to a drip. Rinse the empty container three times with a volume of water equal to a minimum of 30 % of that of the container. Add rinsings to the contents of the spray tank before destroying the container in the prescribed manner.
- Destroy empty containers by perforating and flattening and dispose of it in a safe way.
- Do not re-use the empty container for any other purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Do not apply **EXCELION** to any crop or situation not mentioned in this label.
- Do not apply this product in combination or tank mixture with any other product or agricultural remedy which is not specifically listed on this label. Meridian Agrochemical Company (Pty) Ltd. accepts no responsibility for any negative effects experienced if the instructions on this label are not adhered to, unless a Meridian representative was consulted beforehand.

- If **EXCELION** is used in a tank mix with other recommended products, consideration should be given to the restrictions of those respective products.

DIRECTIONS FOR USE

Use only as directed.

MODE OF ACTION

EXCELION is a suspension concentrate formulation containing azoxystrobin and epoxiconazole. Azoxystrobin, a fungicide of the chemical class strobilurins, is a Quinone outside inhibitor fungicide. The biochemical mode of action of azoxystrobin is mitochondrial respiration inhibition by obstruction of electron transfer in the mitochondria of the cell between cytochrome b and cytochrome C₁ at the ubiquinol oxidising site. On the plant surface, the primary biological mode of action is the inhibition of spore germination and mycelia growth and also shows antispore activity.

EXCELION also contains epoxiconazole. Epoxiconazole is a preventive and curative fungicide, from the triazole chemical class. The biochemical mode of action is the inhibition of C-14-demethylase in sterol biosynthesis.

RESISTANCE MANAGEMENT

For resistance management, **EXCELION** is a group code 11 and 3 fungicide. Any fungus population may contain individuals naturally resistant to **EXCELION** and other group code 11 and 3 fungicides. The resistant individuals can eventually dominate the disease population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **EXCELION** or any other group code 11 and 3 fungicide.

To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate or tank mix with registered products from different fungicide group codes.
- Refer to individual product labels when alternating products or when using tank mixtures with registered products.
- Do not exceed three applications of **EXCELION** per season.
- A spray programme of mixtures or alternations with remedies with a different mode of action may delay resistant strain build-up.
- Integrate other control methods (chemical, cultural, biological) into disease control programmes.

Since the occurrence of resistance cannot be forecast, users are advised to keep treated crops under close observation. If treatment is not effective following the use of **EXCELION** as recommended, a resistant strain may be present. If a resistant strain is positively identified, consideration should be given to prompt use of a fungicide with a different mode of action, for which there is no record of resistance to the relevant disease. Meridian Agrochemical Company (Pty) Ltd. will not accept any liability for performance failures in the event of a build-up of disease resistance resulting from inadequate resistance management practices as indicated on the label. For specific information on resistance management, contact the registration holder of this product or visit the FRAC website <http://www.frac.info/frac/index.html>.

USE RESTRICTIONS

- **EXCELION** should always be applied preventively as described under recommendations.
- **EXCELION** must be applied as a full cover spray.
- Do not reduce the dosage rates below that recommended on the label.
- Never use **EXCELION** as a corrective or curative treatment or after the unsuccessful application of any product.
- When tank mixing or alternating with other fungicides, use registered mixing partners that provide satisfactory disease control when applied alone at the mixing rate.

MIXING INSTRUCTIONS

Half fill the spray tank with clean water. Shake the **EXCELION** container well before use. Premix the required quantity of **EXCELION** with at least 10 litres of water. Add the premix to the water in the spray tank. Agitate the mixture well to obtain a homogenous solution. Fill the spray tank with water to the required level while maintaining constant agitation to ensure thorough mixing. **After the spray tank is**

filled and during the spraying, the mixture should be constantly agitated until the spray tank is empty. If spraying is interrupted, the spray mixture in the tank should be agitated properly before spraying is commenced.

If **EXCELION** is to be mixed with another product, the required quantity of the other product should be premixed, prior to slowly adding to the spray mixture after the **EXCELION**.

First, mix small quantities of the products separately with water. Check for any signs of incompatibility such as flocculation etc. It is recommended to add **EXCELION** first and the mixing partner second while agitating. Ensure constant agitation. **Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank overnight.**

COMPATIBILITY

The compatibility of **EXCELION** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used. As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made. Meridian Agrochemical Company (Pty) Ltd. cannot be held responsible for damage to crops resulting from tank mixtures with products or formulations not tested. If **EXCELION** needs to be used in tank mix combinations, full cognisance must be taken of all warnings, precautions and directions for use on that particular product's label. **EXCELION** is compatible with adjuvants such as **H&R Crop Oil**.

APPLICATION INSTRUCTIONS

GROUND APPLICATION

EXCELION can be applied with conventional high-volume spray equipment. Make sure that the applicator being used is properly calibrated and in good working condition. Ensure good coverage of crops by using the spray volumes as indicated in the relevant tables. Do not let the spray overlap as this can lead to crop damage. Ensure that the spray volume is applied uniformly throughout the targeted area.

AERIAL APPLICATION

Avoid chemical drift at all times.

Aerial application may only be done by a registered aerial application operator using a registered and correctly calibrated aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Remedies). It is important to ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

Equipment

- Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage of the target area and will ensure the minimum loss of product through drift.
- The operator must use a nozzle set-up that will produce a droplet spectrum with the lowest possible relative span.
- All nozzles and atomisers should be positioned within the inner 60-75% of the wingspan to prevent droplets from entering the wingtip vortices.

Application Parameters

- A minimum volume of 30-40 l spray mixture per ha is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy nor be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended.
- A droplet coverage of 30 – 40 droplets per square cm must be recovered at the target.
- A droplet spectrum with a VMD of 280 – 300 microns is recommended. Ensure that the production of fine droplets, with a VMD less than 150 microns, is restricted to a minimum.
- The height of the spray boom should be maintained at between 3 and 4m above the target.
- Do not spray when the aircraft is in a climb, at the top of a turn or during a dive or when banking.

Meteorological Conditions

- The difference between the wet and dry bulb readings, as determined using a whirling hygrometer, must not exceed 8 °C.
- Do not spray under turbulent, unstable conditions or during the heat of the day when rising thermals and downdraughts occur.
- Do not spray under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80% and above) as this may cause:
 - i. Reduced efficacy due to suspension and evaporation of small droplets in the air (Which leads to inadequate coverage).
 - ii. Damage to other sensitive crops and/or non-target areas through drifting of the spray cloud away from the targeted area.
- Do not spray when the wind speed exceeds 15 km per hour.
- Under the following climatic conditions drift could occur more than 3 to 5 km.
 - i. Cloudy weather with relative humidity above 80% and low air movement of less than 5 km per hour. When such conditions prevail, aerial application should **NOT** be carried out where sensitive crops, crop seedlings or deciduous fruit trees e.g. apples in budding or early development stages are present within 5 km of the nearest spray path cloud away from the target field.

General

- Ensure that fields are accurately marked and that the aerial spray operator knows exactly which fields to spray. Indicate adjacent environmentally sensitive areas or sensitive neighbouring crops, beehives or water sources that could be affected by the pesticide.
- Obtain an assurance from the aerial spray operator that the above requirements will be met and that the relevant data will be compiled in a logbook and kept for future reference.

RECOMMENDATIONS

CROP & DISEASE	DOSAGE RATE	REMARKS
<p>MAIZE</p> <p>Northern leaf blight (<i>Exserophilum turcicum</i>)</p> <p>Rust (<i>Puccinia sorghii</i>)</p>	<p>Ground and aerial application</p> <p>500 ml / ha</p> <p>PLUS</p> <p>500 ml / ha H&R Crop Oil</p>	<p>Apply the first application at the 5 to 6 leaf stage before any disease symptoms are noticed.</p> <p>A second application of EXCELION is recommended 3 weeks later.</p> <p>Under continued high disease pressure conditions, a third application with EXCELION is recommended, 3 to 4 weeks later.</p> <p>In certain areas/conditions, where low disease presence is expected, apply a single application of EXCELION at the 5 to 6 leaf stage.</p> <p>If extended disease control is required, revert to the above mentioned, follow-up application of EXCELION. These applications will also control Grey leaf spot if the applications coincide with the critical application time for this disease.</p> <p>Do not exceed three (3) applications of EXCELION per season.</p> <p>EXCELION IS RECOMMENDED IN AN INTEGRATED DISEASE MANAGEMENT PROGRAMME. IN ORDER TO ACHIEVE CONSISTENT AND RELIABLE DISEASE CONTROL, PREVENTIVE FUNGICIDE APPLICATIONS ARE CRITICALLY IMPORTANT.</p> <p>Ground application: Apply as a full cover spray in 300 to 500 l water / ha.</p> <p>Hand-held Spinning disk applicator: Apply 50 to 70 l water / ha.</p> <p>Aerial application: Apply in 30 to 40 l water / ha. Refer to "Aerial application Instructions" above".</p>

ACKNOWLEDGEMENT OF TRADEMARKS

H&R Crop oil (L 6802)

H&R South Africa Sales (Pty) Ltd.

WAARSKUWINGS

Onthoudingsperiodes

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

Mielies.....30 dae

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

- Hanteer versigtig.
- Skadelik indien ingesluk, ingeasem of indien deur vel geabsorbeer word.
- Giftig vir visse en skadelik teenoor ander waterlewe. Mag langtermyn nadelige effek op akwatiese omgewings veroorsaak.
- Vermyn kontak met vel en oë deur beskermende klere en toerusting te dra.
- Bêre in die oorspronklike houër agter slot-en-grendel in 'n koel, droë, goed geventileerde plek, weg van voedsel, saad, voer en ander landboumiddels.
- Hou buite bereik van kinders, ongeligte persone en diere.
- **Herbetreding:** Moenie behandelde gebied betree alvorens spuitneerslag droog is nie, tensy beskermende oorklere gedra word.
- **Lugtoediening:** Stel al die inwoners in die onmiddellike omgewing van die gebied wat bespuit gaan word in kennis en reik die nodige waarskuwings uit. Moenie oor aangrensende gebiede of oor water spuit, of die spuitstof daarheen laat oorwaai nie.

Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie. Die werking en doeltreffendheid daarvan kan beïnvloed word deur faktore soos abnormale grond-, klimaats- en bergingstoestande, kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui word nie en die voorkoms van weerstand van die siektes teen die betrokke middel, sowel as die metode, tyd en akkuraatheid van die toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir nadelige invloede op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel 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.

VOORSORGMATREËLS

- Vermyn oog- en velkontak.
- Moenie die dampe of spuitnewel inasem nie.
- Dra beskermende klere (bv. rubber handskoene en stewels) en gesigskerm tydens hantering van die onverdunde produk en tydens die vermenging en aanwending van die spuitmengsel.
- In die geval van direkte velkontak, was onmiddellik met seep en water.
- In die geval van oogkontak, spoel oë vir ten minste 15 minute met skoon water terwyl ooglede oopgehou word; verwyder kontakklense indien teenwoordig. Verkry mediese bystand indien irritasie voortduur.
- Was besoedelde klere na gebruik.
- Moenie eet, drink of rook terwyl spuitmengsel voorberei of gespuit word of voordat gesig en hande gewas is nie.
- Vermyn wegdrywing van spuitnewel na ander gewasse, weiding, riviere, damme en gebiede wat nie behandel moet word nie.
- Maak toedieningsapparaat voor en na gebruik skoon. Uitspoelwater moet nie gewasse, weidings, riviere, damme of ander waterbronne besoedel nie.
- Keer die leë houër om oor die spuittenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloeï tot 'n gedrup verminder het. Spoel die houër daarna **drie keer** uit met 'n volume water gelykstaande aan 'n minimum van 30% van die inhoud van die houër. Gooi die spoelwater by die inhoud van die spuittenk voordat die houër op die voorgeskrewe manier vernietig word.
- Vernietig leë houers deur gate daarin te maak en dit plat te maak voordat daarvan op 'n veilige manier ontslae van geraak word.
- Moenie leë houër vir enige ander doel gebruik nie.
- Voorkom die besoedeling van voedsel, voer, drinkwater en eetgerei.
- Moenie **EXCELION** op enige gewas of situasie aanwend wat nie in die voorskrifetiket verskyn nie

- Moenie hierdie produk in kombinasie of tenkmengsel met enige ander produk of landboumiddel gebruik wat nie spesifiek op hierdie etiket gelys is nie. Meridian Agrochemical Company (Edms.) Bpk. aanvaar geen verantwoordelikheid vir enige negatiewe gevolge indien die instruksies op die etiket nie nagekom word nie, tensy 'n Meridian verteenwoordiger vooraf geraadpleeg is.
- Indien **EXCELION** in 'n tenkmengsel met ander aanbevole produkte gebruik word, moet oorweging aan die beperkings van daardie betrokke produkte geskenk word.

GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui.

METODE VAN WERKING

EXCELION is suspensiekonsentraat formulering wat asoksistrobien en epoksikonasool bevat. Asoksistrobien behoort tot die chemiese groep strobilurien, wat 'n kinoon buite-inhibeerder swamdoder is. Die biochemiese metode van werking van asoksistrobien is die inhibering van mitochondriale respirasie deur die blokkering van elektronoordrag in die mitochondria van die sel, tussen sitochroom b en sitochroom C₁, by die ubiquinol oksideringsarea. Op die plantoppervlakte is die primêre metode van werking die inhibering van spoorontkieming en miseliumgroei en toon ook antispore werking.

EXCELION bevat ook epoksikonasool. Epoksikonasool is 'n voorkomende en genesende swamdoder en behoort tot die triasool chemiese groep. Die biochemiese metode van werking is die inhibering van C-14-demetielase in steroolbiosintese.

WEERSTANDBESTUUR

Vir weerstandsbestuur is **EXCELION** 'n groepkode 11 en 3 swamdoder. Enige swampopulasie mag individue bevat wat natuurlike weerstand teen **EXCELION** of enige ander groepkode 11 en 3 swamdoders het. Die weerstandbiedende individue kan uiteindelik die siektepopulasie oorheers as hierdie swamdoder herhaaldelik aangewend word. Hierdie weerstandbiedende swamme sal waarskynlik nie deur **EXCELION** of enige ander groepkode 11 en 3 swamdoders beheer word nie.

Om weerstand teen swamdoders te vertraag:

- Vermy die eksklusiewe herhaaldelike gebruik van swamdoders met dieselfde groepkode. Wissel af met, of gebruik tenkmengsels van, produkte in verskillende swamdodergroepkodes.
- Sien toepaslike individuele produketikette wanneer daar tussen produkte of tenkmengsels met geregistreerde produkte afgewissel word.
- Moenie drie toedienings van **EXCELION** per seisoen oorskry nie.
- 'n Spuitprogram met mengsels of afwisselende middels met verskillende metodes van werking mag die opbou van weerstandbiedende stamme vertraag.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in siektebeheerprogramme.

Aangesien die voorkoms van weerstandbiedendheid moeilik is om te bepaal, is dit uiters belangrik om die behandelde gewasse noukeurig te ondersoek. Indien die behandeling nie effektief was met die gebruik van **EXCELION** soos voorgeskryf nie, mag daar 'n weerstandbiedende-populasie teenwoordig wees. Indien so 'n weerstandbiedende-populasie positief geïdentifiseer word, moet daar onmiddellik 'n swamdoderbespuiting wat 'n ander werkswyse het, waar daar geen bewys van weerstand teen die siekte voorkom, gedoen word. Meridian Agrochemical Company (Edms.) Bpk. sal geen verantwoordelikheid aanvaar vir enige gebrek aan prestasie in die geval van die opbou van siekteweerstand as gevolg van onvoldoende weerstandsbestuurspraktyke soos aangedui op die etiket nie. Vir spesifieke inligting oor weerstandsbestuur kan die registrasiehouer van hierdie produk gekontak word of die FRAC webwerf by <http://www.frac.info/frac/index.html> besoek word.

GEBRUIKSBEPERKINGS

- **EXCELION moet altyd voorkomend toegedien word**, soos in die aanbevelings aangedui.
- **EXCELION** moet as 'n voldekbespuiting toegedien word.
- Moenie die dosis verlaag onder dié soos wat op die etiket aangedui is nie.
- Moet nooit **EXCELION** as 'n korrektiewe of genesende behandeling na die onsuksesvolle toediening van enige produk toedien nie.
- Indien met tenkmengsels of afwisselend met ander swamdoders gebruik word, gebruik geregistreerde mengvennote wat bevredigende siektebeheer verskaf indien alleen teen die mengdosis toegedien word.

MENGINSTRUKSIES

Vul die spuittenk halfvol met skoon water. Skud die **EXCELION** deeglik net voor gebruik. Meng die verlangde hoeveelheid **EXCELION** vooraf met ten minste 10 liter water. Voeg die voorafmengsel by die spuitwater in die spuittenk. Verseker roering van die mengsel om 'n homogene oplossing te verkry. Maak tenk tot by die verlangde volume vol terwyl konstante roering plaasvind om deeglike vermenging te verseker. **Nadat die spuittenk volgemaak is en gedurende die spuitproses moet die mengsel aanhoudend geroer word totdat die spuittenk leeg is.** Indien bespuiting onderbreek word, moet deeglike roering plaasvind voordat met bespuiting voortgegaan word.

Indien **EXCELION** met ander produkte gemeng word, moet die verlangde hoeveelheid van die ander produk vooraf gemeng word, dit stadig by die tenkmengsel gevoeg word, nadat die **EXCELION** ingegooi is.

Eerstens, meng klein hoeveelhede van die produkte afsonderlik met water. Let op vir enige tekens van onverenigbaarheid soos flokkulasie ens. Dit word aanbeveel om eerstens **EXCELION** by te voeg en dan die mengvennoot terwyl roering plaasvind. Verseker aanhoudende roering. **Tenkmengsels moet onmiddellik uitgespuit word en nie toegelaat word om oornag in die spuittenk te staan nie.**

VERENIGBAARHEID

Die verenigbaarheid van **EXCELION** met ander produkte sal van die formulerings van die onderskeie produkte afhang, asook van die kwaliteit van die spuitwater wat gebruik word. Soos formulerings van tyd tot tyd verander, is dit raadsaam om eers 'n fisiese verenigbaarheidstoets te doen voordat tenkmengsels gemaak word. Meridian Agrochemical Company (Edms.) Bpk. kan nie verantwoordelik gehou word vir skade aan gewasse a.g.v. tenkmengsels met produkte of formulerings wat nie getoets is nie.

Indien dit nodig is om **EXCELION** in tenkmengselkombinasies te gebruik, moet deeglike oorweging geskenk word aan die waarskuwings, voorsorgmaatreëls en gebruiksaanwysings soos dit op daardie spesifieke produk etiket aangedui is. **EXCELION** is verenigbaar met byvoegmiddels soos **H&R Crop Oil**.

TOEDIENINGSMETODES

GRONDTOEDIENING

EXCELION kan met 'n konvensionele hoë-volume spuittoerusting toegedien word. Verseker dat die toediener wat gebruik word behoorlik gekalibreer is en in goeie werkende toestand is. Verseker goeie bedekking van gewasse deur spuitvolumes te gebruik soos in die relevante tabelle aangedui. Verhoed dat die spuitbane oorvleuel, want dit kan tot gewasskade lei. Verseker dat die spuitvolume eweredig oor die teikengebied toegedien word.

LUGTOEDIENING

Vermý chemiese wegdrywing ten alle tye.

Lugtoediening mag slegs deur 'n geregistreerde lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS Kode 10118 (Aerial Application of Agricultural Remedies) gedoen word. Dit is belangrik om te verseker dat die spuitmengsel eweredig oor die teikenarea versprei word en dat die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is dus belangrik om aan die volgende vereistes te voldoen:

Toerusting

- Gebruik geskikte atomiseringsapparaat (hidroliese spuitpunte of roterende atomiseerders) wat die vereiste druppelgrootte en bedekking sal produseer, maar wat die minste verlies van produk deur wegdrywing sal verseker.
- Die operateur moet 'n spuitkopstelsel opstel wat 'n druppelspektrum met die kleinste moontlike relatiewe spanwydte sal produseer.
- Al die spuitkoppe en atomiseerders moet in die binneste 60-75% van die vlerkspan geplaas word om te verhoed dat die druppels binne-in die vlerkvorteks inbeweeg.

Toedieningsparameters

- 'n Minimum volume van 30-40 l spuitmengsel per hektaar word aanbeveel. Aangesien hierdie produk nie teen 'n verlaagde volume getoets is nie, kan die registrasiehouer nie effektiwiteit

waarborg, of verantwoordelik gehou word vir enige nadelige effek indien hierdie produk teen 'n laer volume as hierbo aanbeveel, uit die lug toegedien word nie.

- 'n Druppelbedekking van 30 - 40 druppels per vierkante cm moet op die teikenarea herwin word.
- 'n Druppelspektrum met 'n VMD van 280 - 300 mikron word aanbeveel. Verseker dat die produksie van fyn druppels (kleiner as 150 mikron) tot 'n minimum beperk word.
- Die hoogte van die spuitbalk moet tussen 3 en 4 meter bokant die teiken gehandhaaf word.
- Moenie spuit wanneer die vliegtuig besig is om te klim, te draai, te duik, of terwyl dit uitklim nie.

Meteorologiese Toestande

- Die verskil tussen die nat- en droëbollesing, soos met 'n swaaihigrometer bepaal, moet nie 8°C oorskry nie.
- Moenie tydens turbulente, onstabiele toestande, of gedurende die hitte van die dag wanneer stygende en dalende konveksie-windbewegings plaasvind, toedien nie.
- Moenie tydens temperatuur-inversie-toestande (deur bokant of binne-in die inversielaag te spuit) en/of gedurende hoë humiditeitstoestande (relatiewe humiditeit bokant 80%) toedien nie, aangesien dit kan lei tot:
 - Verlaagde effektiwiteit a.g.v. suspensie of verdamping van klein druppels in die lug (wat tot onvoldoende bedekking op teikenarea lei).
 - Skade aan ander sensitiewe gewasse en/of nie-teikenareas deur wegdrywing van die spuitwolk vanaf die teikenarea.
- Moenie spuit wanneer die windspoed 15 km per uur oorskry nie.
- Onder die volgende klimatologiese toestande kan wegdrywing verder as 3 tot 5 km gevind word.
 - Bewolkte weer met relatiewe humiditeit bokant 80% en stadige lugbeweging van minder as 5 km per uur. Indien sulke toestande voorkom, moet lugbespuiting **NIE** plaasvind waar vatbare gewasse, gewassaailinge, of sagtevrugtebome soos appels in bot of in hul vroeë seisoen groeistadiums binne 5 km vanaf die naaste vliegtuigtoedieningstrook, teenwoordig is nie.

Algemeen

- Verseker dat die lande akkuraat gemerk is en dat die spuitoperateur presies weet watter lande gespuit moet word. Dui aangrensende omgewingsensitiewe areas of sensitiewe aangrensende gewasse, byekorwe of waterbronne aan wat deur die plaagdoder beïnvloed kan word.
- Verkry die versekering van die spuitoperateur dat aan die bogenoemde vereistes voldoen sal word en dat die toepaslike data in 'n logboek vir latere verwysing opgeteken sal word.

AANBEVELINGS

GEWAS & SIEKTE	DOSIS	OPMERKINGS
MIELIES Noordelike blaarskroei <i>(Exserophilum turcicum)</i> Roes <i>(Puccinia sorghii)</i>	Grond- en lugtoediening 500 ml / ha PLUS 500 ml / ha H&R Crop Oil	Dien die eerste toediening by die 5 tot 6 blaarstadium toe voordat enige siektesimptome verskyn. 'n Tweede toediening van EXCELION word 3 weke later aanbeveel. Onder volgehoue hoë siektedruktoestande word 'n derde toediening van EXCELION 3 tot 4 weke later aanbeveel. In sekere gebiede/toestande waar 'n lae siektedruk voorkoms verwag word, dien 'n enkele bespuiting van EXCELION by die 5 tot 6 blaarstadium toe. Indien verlengde siektebeheer verlang word, gaan terug na bogenoemde opvolgtoediening van EXCELION . Hierdie toedienings sal ook Grysblaarvlek beheer indien die toedienings met die kritiese toedieningstyd van die siekte saamval. Moenie drie (3) toedienings van EXCELION per seisoen oorskry nie. EXCELION WORD IN 'N GEÏNTEGREERDE SIEKTEBEHEER-BESTUURSPROGRAM AANBEVEEL. OM KONSTANTE EN BETROUBARE SIEKTEBEHEER TE BEHAAL, IS VOOKOMENDE SWAMDOERTOEDIENINGS VAN KARDINALE BELANG.

		<p>Grondtoediening: Dien toe as 'n voldekbespuiting in 300 tot 500 ℓ water / ha.</p> <p>Handgedraagde roterende skyf toediener: Dien toe in 50 tot 70 ℓ water / ha.</p> <p>Lugtoediening: Dien toe in 30 tot 40 ℓ water / ha. Verwys na "Lugtoedienings Instruksies" hierbo.</p>
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ERKENNING VAN HANDELSNAME

H&R Crop oil (L 6802)

H&R South Africa Sales (Edms.) Bpk.