BASF
We create chemistry

Regalis® Plus

Reg. No. L 10535 Act No. 36 of 1947

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

A water dispersible granular plant growth regulator to be used to reduce excessive shoot growth in apples.

'n Waterdispergeerbare korrel plantgroeireguleerder wat gebruik word vir die vermindering van oormatige lootgroei in appels.

WARNING

Hazard statements:
May cause an allergic skin reaction.
Precautionary statements:
Wear protective gloves.
Avoid breathing dust or fume.

Active ingredients / Aktiewe bestanddele:
Prohexadione-calcium (acylcyclohexanediones)...............100 g/kg

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

Geregistreer deur:
BASF Suid-Afrika (Edms) Bpk
Mpy Reg. Nr 66/10235/07
852 Sestiende Laan
Posbus 2801
Halfweghuis 1685
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Batch No. & Date manufactured: Refer to details printed on container
Lotnommer & Datum vervaardig: Verwys na besonderhede gedruk op houer

EMERGENCY NUMBER / NOODNOMMER: +27 82 446 8946

3,5 kg

® = Registered trademark of BASF / Geregistreerde handelsmerk van BASF

81169500 ZA 2063

ENGLISH

WARNINGS

Hazard Statements

- May cause an allergic skin reaction.

ALLOW THE FOLLOWING NUMBER OF DAYS BETWEEN LAST APPLICATION AND HARVEST:

Apples	56

- Handle with care.
- Store in a cool, dry place away from food and feedstuffs.
- Keep out of reach of children, uninformed persons and animals.
- RE-ENTRY INTERVAL: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

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 soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance 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 failure 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.
- Avoid breathing dust or fume.
- Contaminated work clothing should not be allowed out of the workplace.
- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation or rash occurs: Get medical attention.
- Take off contaminated clothing and wash it before reuse.
- Dispose of contents and container to hazardous or special waste collection point.

- Do not smoke, eat or drink during mixing and spraying operations before washing hands and face thoroughly.
- Do not contaminate springs, dams, rivers, eating utensils, food or feed.
- Prevent drift onto other crops and grazing.
- Rinse the empty container with a volume of water equal to at least 10% of the volume of the container and destroy empty container and dispose of it in a safe way and never re-use for any other purpose.

FIRST AID TREATMENT

Remove contaminated clothing.

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

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

RELEVANT SUBSTANCES

Hazardous ingredients According to UN GHS criteria	**CAS number**	**Concentration (W/W)**
prohexadione calcium	127277-53-6	9,94 %
Ammonium sulphate	7783-20-2	< 50 %
Sodium hydrogensulphate	7681-38-1	< 30 %
Oxirane, methyl-, polymer with oxirane	9003-11-6	< 15 %
Lignosulfonic acid, sodium salt	8061-51-6	< 15 %
Silicon dioxide	7631-86-9	< 10 %

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

Mixing instructions:
Half fill the spray tank with clean water. Add the required volume of **Regalis® Plus** to the spray tank. Fill the spray tank with water to the desired volume while stirring continuously to ensure complete mixing before spraying is commenced. Maintain agitation during application. The prepared spray mixture should not be left in the spray tank for an indefinite period, e.g. overnight.

APPLICATION INSTRUCTIONS

General information:
- **Regalis® Plus** is mainly absorbed by the leaves, yet a minimum of leaf surface is required for good uptake of the active ingredient.
- Only apply **Regalis® Plus** to actively growing trees according to the tree size and the rates as listed in the table below.
- High temperatures, low relative humidity and strong winds restrict the uptake of **Regalis® Plus**. It requires four to eight hours for sufficient uptake by the trees and therefore it is critical to apply **Regalis® Plus** preferably late in the afternoon, or alternatively, early morning.

Timing of application:
- The first application should be sprayed when the terminal and lateral shoots are at a length of 3 – 5 cm and 3 – 5 leaves per shoot are fully developed. This period is associated with approximately pink bud stage.
- Repeat with a second application 4 weeks later.

High volume application:
The water volume to be applied per hectare should be calculated according to the Tree Row Volume (TRV) formula described by Unrath (Deciduous Fruit Grower Nov. 1986):

$$\ell / \text{ha} = \frac{\text{Tree height x Tree depth x 937}}{\text{Row Width}}$$

The above formula indicates the required volume of water for High Volume (HV) applications when the trees are in full leaf. Based on the above formula, the following water volumes are recommended for the various growth stages:

GROWTH STAGE / APPLICATION	% HV WATER REQUIREMENT / HA
Pink bud stage – first application	80%
4 weeks later – second application	100%

Low volume application:
- When a low volume application of **Regalis® Plus** is applied, the rate must be at least 1,25 kg/ha.
- Use the above formula to calculate the required amount of **Regalis® Plus** per ha.

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.

CROP	DOSAGE RATE	DIRECTIONS FOR APPLICATION
APPLES	70 g **Regalis® Plus** / 100 l water	**Regalis® Plus** must be applied at a minimum of 1,25 kg/ha. Apply as a foliar application when the terminal and lateral shoot lengths reach 3 – 5 cm and 3 – 5 leaves are unfolded (See **Timing of application** above). Apply as a high volume application according to Tree Row Volume, or when low volume application is applied. Refer to **Low volume application** above. A second application must be applied 4 weeks after the first application.

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.

Regalis® Plus is the registered trademark of BASF

WAARSKUWINGS

Gevaarstellings
- Mag allergiese velreaksie veroorsaak.

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

Appels	56

- Hanteer versigtig.
- Stoor in ‘n koel, droë plek weg van kos en voer.
- Hou buite bereik van kinders, oningeligte persone en diere.
- HERBETREDING: Moet nie die behandelde gebied betree alvorens die spuitneerslag droog is nie, tensy beskermende oorklere gedra word.

Alhoewel hierdie middel omvattend 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, verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie, sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing, nadelige effek 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.

VOORSORGMAATREËLS

Voorsorgstellings

- Indien mediese advies benodig word, hou die produkhouer of -etiket byderhand.
- Hou buite bereik van kinders.
- Lees etiket noukeurig en volg alle instruksies
- Dra beskermende handskoene
- Vermy inaseming van stof en dampe.
- Besoedelde werksklere moet nie buite die werksplek toegelaat word nie.
- INDIEN OP VEL: Was met baie seep en water.
- Indien velirritasie of uitslag ontstaan: Kry mediese hulp.
- Verwyder besoeldelde klere en was voor hergebruik.
- Raak ontslae van inhoud en houer deur na ‘n gevaarlike- of spesiale-afval insamelinsplek te besorg.

- Moenie eet, rook of drink terwyl gemeng of gespuit word nie en alvorens die hande en gesig nie eers gewas is nie.
- Moenie fonteine, damme, riviere, eetgerei, voedsel of voer besoedel nie.
- Vermy oorwaai van spuitstof na ander gewasse en weiveld.
- Spoel die leë houer uit met ‘n volume water gelykstaande aan minstens 10% van die volume van die houer en vernietig leë houer. Raak op ‘n veilige wyse daarvan ontslae en moenie vir enige ander doel hergebruik nie.

NOODHULPBEHANDELING

Verwyder besmette klere

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

Behandeling: Behandel simptomaties (reinig, belangrikste funksies). Daar is geen spesifieke teenmiddel nie.

RELEVANTE STOWWE

Gevaarlike bestanddele Volgens UN GHS Kriteria	**CAS nommer**	**Konsentrasie (w/w)**
prohexadione calcium	127277-53-6	9,94 %
Ammonium sulphate	7783-20-2	< 50 %
Sodium hydrogensulphate	7681-38-1	< 30 %
Oxirane, methyl-, polymer with oxirane	9003-11-6	< 15 %
Lignosulfonic acid, sodium salt	8061-51-6	< 15 %
Silicon dioxide	7631-86-9	< 10 %

GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS VOORGESKRYF

Menginstruksies:
Maak die spuittenk halfvol met skoon water. Meet die voorgeskrewe hoeveelheid **Regalis® Plus** af en voeg dit in die spuittenk. 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.

TOEDIENINGSVOORSKRIFTE:

Algemene inligting:
- Al word **Regalis® Plus** hoofsaaklik deur die blare opgeneem, is slegs 'n minimum blaaroppervlak nodig vir voldoende opname van die aktief.
- Spuit **Regalis® Plus** slegs op sterk groeiende plante in ooreenstemming met die boomgrootte en dosisse, soos in die tabel aangedui.
- Die opname van **Regalis® Plus** word deur hoë temperature, lae Relatiewe Humiditeit en sterk wind beperk en dit vereis vier tot agt ure vir voldoende opname deur die bome. Dit is dus krities dat **Regalis® Plus** verkieslik laat in die middag gespuit moet word, of alternatiewelik vroeg oggend.

Toedieningstyd:
- Die eerste toediening moet gespuit word wanneer die terminale uitlopers 3 – 5 cm lank is en 3 – 5 blare per loot ten volle ontwikkel het. Hierdie periode word geassosieer met ongeveer pienkbal stadium.
- Herhaal 'n tweede toediening 4 weke later.

Hoëvolume toediening:
Die watervolume wat per hektaar toegedien word, moet bereken word volgens die Boomryvolume (BRV) formule wat beskryf is deur Unrath (Deciduous Fruit Grower Nov. 1986):

$$\ell/\text{ha} = \frac{\text{Boomhoogte x Boomdiepte x 937}}{\text{Rywydte}}$$

Bogenoemde formule dui die hoeveelheid water vir hoëvolume (HV) toedienings, wanneer die bome in die volle blaarstadium is, aan. Die volgende watervolumes word gebaseer op die bogenoemde formule vir verskillende groeistadia:

GROEISTADIA / TOEDIENING	% HV WATER BENODIG / HA
Pienkbal stadium – eerste toediening	80%
Vier weke later – tweede toediening	100%

Laevolume toediening:
- Wanneer 'n laevolume toediening van **Regalis® Plus** uitgevoer word, moet die dosis ten minste 1,25 kg/ha wees.
- Gebruik bogenoemde formule om die hoeveelheid **Regalis® Plus** per ha te bereken.

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	DOSIS	GEBRUIKSAANBEVELING
APPELS	70 g **Regalis® Plus** / 100 l water	'n Minimum van 1,25 kg/ha **Regalis® Plus** moet toegedien word. Dien as 'n blaarbespuiting toe wanneer die laterale lote 3 – 5 cm lank is en 3 – 5 blare ontvou het (kyk **Toedieningstyd** hierbo). Dien 'n hoëvolume toediening toe volgens die Boomryvolumeformule, of wanneer 'n laevolume toediening toegedien word. Verwys na **Toedieningstyd** hierbo. 'n Tweede toediening moet vier weke na die eerste toediening gespuit word.

Verkoopsvoorwaardes Verkoopsvoorwaardes 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 GEïMPLISEERDE WAARBORG NIE.
IN DIE MATE WAT DIT MET TOEPASLIKE WETGEWING OOREENSTEM, SAL DIE KOPER SE UITSLUITLIKE REGSMIDDEL EN BASF SE UITSLUITLIKE AANSPREEKLIKHEID, HETSY IN KONTRAK, ONREGMATIGHEID, NALATIGHEID, STRENG AANSPREEKLIKHEID, OF ANDERSINDS, BEPERK WORD TOT TERUGBETALING VAN DIE AANKOOPPRYS VAN DIE PRODUK.
IN DIE MATE WAT DIT MET TOEPASLIKE WETGEWING OOREENSTEM, DOEN BASF EN DIE VERKOPER, AFSTAND VAN ENIGE AANSPREEKLIKHEID TEN OPSIGTE VAN VOORTSPRUITENDE SKADE, SKADEVERGOEDING, SPESIALE OF 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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