

# CURATERR<sup>®</sup>

## 10 GR

SEE ENCLOSED LEAFLET FOR FULL DETAILS.  
BEFORE USING THIS PRODUCT PLEASE READ  
THE LABEL CAREFULLY.

Registration No. L871 (Act No. 36 of 1947)  
Namibian Reg No.: N-AR 0038  
Botswana Reg. No. W130492 (Act No. 18 of 1999)

**A systemic granule insecticide and  
nematicide for the control of the pests  
mentioned on the crops listed.**

SIEN INGESLOTE PAMFLET VIR VOLLE  
BESONDERHEDE

Registrasie Nr. L871 (Wet Nr. 36 van 1947)  
Namibiese Reg. Nr. N-AR 0038

**'n Sistemiese korrel insek-en  
aalwurmdoder vir die beheer van  
die genoemde plaë op gewasse  
soos aangedui.**

INSECTICIDE GROUP CODE 1A INSEKDODER GROEPKODE

**Active ingredient:**  
Carbofuran (carbamate)..... 100 g/kg

**Aktiewe bestanddeel:**  
Karbofuran (karbamaat)..... 100 g/kg

**REGISTERED BY / GEREGISTREER DEUR:**

Bayer (Pty) Ltd / (Edms) Bpk  
Reg. 1968/011192/07  
P.O. Box/Posbus 143  
Isando

1600 South Africa/Suid-Afrika  
TEL: (OFFICE HOURS) / (KANTOORURE) (011) 921 5911

IN CASE OF POISONING PLEASE PHONE / IN GEVAL VAN VERGIFTIGING SKAKEL: 0861 555 777

Curaterr<sup>®</sup> is a registered trademark of the Bayer Group  
Curaterr<sup>®</sup> is 'n geregistreerde handelsmerk van die Bayer Groep  
© Bayer (Pty) Ltd

BATCH NUMBER: See on pack  
LOTNOMMER:

DATE OF MANUFACTURE: Sien op houer  
DATUM VERVAARDIG:

Bayer

RSA/0318/Curaterr 10GR 25 kg Bag /  
Code: 79638205E



# CURATERR<sup>®</sup>

## 10 GR

### Insecticide/Nematicide

A systemic granule insecticide and  
nematicide for the control of the pests  
mentioned on the crops listed.

contains:  
Carbofuran (carbamate)



Packaging / Verpakking:  
25 kg



HARMFUL  
SKADELIK





## WAARSKUWINGS:

- **MIELIES EN KOOL:**  
DIEN SLEGS TOE MET PLANTTYD. MOET NIE KOOLPLANTE BINNE 11 WEKE NA TOEDIENING OES NIE. MOET NIE OP VINNIG-GROEIENDE KOOLVARIËTEITE GEBRUIK NIE. MOET NIE BEHANDELDE MIELIEPLANTE AAN DIERE VOER BINNE 8 WEKE NA TOEDIENING ONDER NORMALE REËNVAL TOESTANDE NIE. INDIEN DROOGTE TOESTANDE NA PLANTTYD SOU VOORTDUUR RAADPLEEG U NAASTE BAYER CROPSCIENCE TEGNIESE ADVISEUR, VOORDAT DIERE TOEGELAAT WORD OM TE WEI.  
IN DIE GEVAL VAN MIELIES EN KOOL KAN 'N AFWAARTSE NEIGING IN STRONKBOORDERBEHEER EN RUITRUGMOT LARWE ONDERSKEIDELIK VANAF 7-8 WEKE NA TOEDIENING VERWAG WORD.
- **KORING:**  
DIEN SLEGS TOE MET PLANTTYD. MOET NIE KORING OES BINNE 120 DAE NA TOEDIENING NIE. MOET NIE BEHANDELDE KORING BINNE 120 DAE NA TOEDIENING LAAT BEWEI NIE.
- **SUIKERRIET:**  
DIEN SLEGS TOE MET PLANTTYD OF BINNE 120 DAE VAN OES VAN VORIGE OES VAN SUIKERRIET. MAAK NET EEN TOEDIENING PER OES GEDURENDE PLANTTYD EN LAAT 180 DAE TUSSEN BEHANDELING VAN SUIKERRIET EN OES.  
MET PLANTTYD VERSEKER DAT STEGGIES 'N MINIMUM PLANTDIEPTE VAN 7,5 cm ONDER DIE GRONDOPPERVLAKTE HET.
- **GRAANSORGHUM:**  
DIEN SLEGS TOE MET PLANTTYD. MOET NIE BEHANDELDE SORGHUMPLANTE AAN DIERE VOER BINNE 10 WEKE NA TOEDIENING NIE.  
'N AFWAARTSE NEIGING IN STRONKBOORDERBEHEER KAN VANAF 7-8 WEKE NA TOEDIENING VERWAG WORD.
- **TABAK:**  
DIEN SLEGS TOE MET PLANTTYD EN NIE LATER AS EEN WEEK NA PLANT IN LIGTE SANDERIGE GROND NIE. MOET NIE BLARE OES BINNE 80 DAE NA BEHANDELING NIE. **CURATERR 10 GR** MAG NIE GEBRUIK WORD OP PLANTJIES WAT IN SAAILAAIE GEKWEK IS NIE.
- **SONNEBLUM:**  
DIEN SLEGS TOE MET PLANTTYD. MOET NIE OES BINNE 11 WEKE NA TOEDIENING NIE.
- **AARTAPPELS:**  
DIEN SLEGS MET PLANTTYD TOE. MOET NIE OES BINNE 90 DAE NA TOEDIENING NIE.

LET WEL: Die aanbevole onthoudingsperiode tussen laaste toediening en oes voldoen aan die vereistes vir plaaslike residuvlakke maar mag dalk nie voldoen aan die vereistes vir uitvoer nie. Indien die behandelde gewas bestem is vir die uitvoermark, skakel met die betrokke uitvoerliggaam voor toediening van die produk, rakende onthoudingsperiodes.

DIE EFFEKTIWITEIT VAN **CURATERR 10 GR** MAG NADELIG BEÏNVLOED WORD, WANNEER DIT GEBRUIK WORD IN ALKALIESE, BRAK OF GRONDE MET 'N HOË pH (BOKANT 7).  
MAG NIE AS 'N SAADBEHANDELING GEBRUIK WORD NIE.

Hanteer uiters versigtig.

Giftig wanneer ingeneem, ingeasem of deur die vel geabsorbeer.

Uiters giftig vir water lewe met langdurige effekte.

Giftig vir bye en wild. Om voël vergiftiging te voorkom sorg dat korrels dadelik bedek word. Neem spesiale voorsorg op die end van die plantrye waar vermorsing mag voorkom.

Stoor agter slot en grendel weg van voedsel en voer.

Hou buite bereik van kinders, oningeligte persone en diere.

In geval van vergiftiging ONTBIED 'N GENEESHEER EN TOON ETIKET AAN HOM/HAAR.

Moet geen eetbare gewas op behandelde grond of binne 10 meter van behandelde gebied plant binne 100 dae vanaf toediening nie.

Stel personeel (werkers, vroue en kinders) in kennis van potensiële gevaar van produk en gee volle instruksies i.v.m. vergiftiging. Merk behandelde gebiede met geskikte gevaartekens. Vir eerste 30 dae na behandeling moet rubberhandskoene en rubberskoene gedra word as grond hanteer word en wanneer besproei word.

HERBETREDING: Moenie behandelde gebied binne een dag na bespuiting binnegaan 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; VERENIGBAARHEID MET ANDER STOWWE WAT NIE OP DIE ETIKET AANGEDUI IS NIE EN DIE VOORKOMS VAN WEERSTAND VAN DIE PLAAG TEEN DIE BETROKKE MIDDEL SOWEL AS DIE METODE, TYD EN AKKURATEID 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:

Verhoed vel kontak met die korrels sowel as inaseming van die poeier.

Dra beskermende kleres -oorpak, rubber skoene, rubber handskoene en 'n bril. Was besmette kleres daagliks.

Was met seep en koue water na gebruik.

Moenie eet, drink of rook tydens toediening of voordat hande en gesig gewas is nie.

Hou onbeskermde persone weg van aanwendingsgebied.

Maak korreltoediener skoon na gebruik of voordat met ander middels gebruik word; raak van uitspoelwater ontslae waar dit nie gewasse, riviere of damme sal besoedel nie.

Houers en verpakings moet heeltemal leeggemaak word voordat hulle vernietig word. Skud die houer deeglik uit in die toediener se stortbak.

Vernietig leë houers en moet nooit vir enige ander doel weer gebruik nie.

Voorkom besoedeling van voedsel, voer, drinkwater en eetgerei.

Voorkom besoedeling van fonteine, riviere en damme.

# Insekdoder



## NOODHULPBEHANDELING:

**Algemene advies:** Beweeg uit die gevaar area uit. Plaas die pasiënt op sy/haar sy en vervoer in 'n stabiele posisie. Verwyder besmette klere onmiddellik en raak op 'n veilige manier daarvan ontslae.

**Inaseming:** Beweeg na vars lug in geval dampe of ontbindings produkte per ongeluk ingeasem is. Dien suurstof of kunsmatige asemhaling toe indien nodig. Kontak 'n geneesheer of die Gif Beheer Sentrum onmiddellik.

**Velkontak:** Was deeglik met genoegsame seep en water en indien beskikbaar met poliëtileenglikol 400 en spoel dan af met water.

**Oogkontak:** Spoel oë onmiddellik uit met genoegsame water, ook onder die ooglede. Verwyder kontaklense na die eerste 5 minute, indien teenwoordig en gaan voort met spoeling. Verkry mediese behandeling indien irritasie ontwikkel en voortduur.

**Ingesluk:** Spoel mond uit. Veroorsaak braking SLEGS indien, 1. die pasiënt by sy/haar volle bewussyn is, 2. mediese hulp nie gereedlik beskikbaar is nie, 3. 'n beduidende hoeveelheid (meer as 'n mondvol) ingesluk is en 4. die tydsverloop sedert die gifstof ingesluk is minder as een uur is. (braaksel moet nie in die asemhalingskanaal beland nie). Kontak onmiddellik 'n geneesheer of die Gif Beheer Sentrum.

## Belangrikste simptome en gevolge, beide akuut en vertraagde

**Simptome:** Na oogkontak kom tydelike onduidelike sig voor as gevolg van die pupille wat saamtrek (miose), bradikardie, lae bloeddruk, speekselvloeï, brongiale hiperafskeiding, braking, maagwerking, sweet, spiertrekkings, spasmas, swaar asemhaling, respiratoriese verlamming, slaperigheid, koma, ophou asemhaal, lae liggaams temperatuur, stuiptrekkings en naarheid.

## Aanduiding van enige onmiddellike mediese aandag en spesiale behandeling benodig

**Gevare:** Hierdie produk is 'n cholinesterase inhiberings karbamaat.

## Behandeling:

Kontroleer: asemhalings-, hart- en sentrale senuwee stelsels. Kontroleer: bloed funksies. Kontroleer rooi bloedsel en plasma cholinesterase. EKG monitering (elektrokardiogram).

Suurstof en kunsmatige asemhaling indien nodig. Hou lugweg oop.

Maagspoeling kan slegs binne die eerste 2 ure toegepas word indien 'n beduidende hoeveelheid ingesluk is, alhoewel die toediening van geaktiveerde koolstof en natrium sulfaat altyd wenslik is. Die volgende teenmiddel is algemeen aanvaarbaar: atropien. Alvorens die teenmiddel toegedien word moet óf duidelike simptome van vergiftiging teenwoordig wees óf die cholinesterase aktiwiteit moet laer as 30% van normaal geïnhibeerd wees. In geval van stuiptrekkings kan 'n bensodiasepiene (bv. diasepaam) volgens standaard stelsels toegedien word.

Kontraïndikasies: oksiem, (pralidoksiem, obidoksiem).

## GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS AANBEVEEL

- 'n Akkurate en korrek gekalibreerde korreltoediener moet gebruik word. Die pyptoevoer wat die korrels vanaf die toediener tot in die plantvoortjie lei moet op 'n genoegsame skerp hoek gestel word om konstante vloei te verseker. Die toevoerstelsel moet gereeld nagegaan word om te verseker dat dit nie verstop is nie. Verseker 'n eweredige verspreiding van die korrels.
- Soos die geval is met alle grondinsekdoders moet genoegsame klamheid teenwoordig wees vir die vrystelling van die aktiewe bestanddeel.
- Produsente word aanbeveel om 'n geskikte snywurmlokaas toe te dien soos aanbeveel vir snywurm-beheer na planttyd en voor ontkieming om 'n optimale plantestand te verseker.

## VERENIGBAARHEID:

**Curaterr 10 GR** moet nie as 'n mengsel gelyktydig met kunsmis deur middel van 'n enkele korreltoediener toegedien word nie.

GEWAS/PLAAG	TOEDIENINGS-HOEVEELHEID	OPMERKINGS
<b>MIELIES</b> (Insluitende suikermielies) Vals draadwurm, Mieliewortelwurm ( <i>Buphonella murina</i> )	100 g/100 m lineêr in voor met planttyd.	Sal ook blaarspringers en aalwurms onderdruk.
Blaarspringers (vektore van streepsiekte) (sien Nota 4 hieronder), Aalwurms, Grondkalanders ( <i>Protostraphus</i> spp.)	150 g/100 m lineêr in voor met planttyd.	Sal ook stronkboorder en swartmieliekewer onderdruk.
Stronkboorder ( <i>Busseola fusca</i> ), Swartmieliekewer ( <i>Heteronychus</i> spp.) <i>Astylus</i> larwes	200 g/100 m lineêr in voor met planttyd.	In gebiede waar 'n hoë besmettingsdruk van <i>Astylus</i> larwes voorkom moet ook 'n saadbehandeling met 'n geregistreerde middel toegepas word.

## NOTAS:

- Maak seker dat die korreltoediener korrek gekalibreer is, en dat daar gedurig 'n eweredige vloei van korrels is.
- Die korrels moet direk op die saad in die plantvoortjie toegedien word.
- Toediening van middels vir swartmieliekewer beheer is uiters krities, SORG DAT U TOEDIENINGSAPPARAAT BEHOORLIK GEKALIBREER IS. TOEDIENINGS DOSIS MOET ELKE DAG VERSKEIE KERE GETOETS WORD.  
Nieteenstaande die gebruik van hierdie middel, kan swartmieliekewer beskadiging nog steeds verwag word. Onder toestande van hoë populasiedruk kan selfs tot 20 % of meer van die mielies ten spyte van behandeling, beskadig of vernietig word.
- Bevredigende beheer van blaarspringers (vektore van streepsiekte) op mielies, mag moontlik varieër en streepsiekte mag nogtans voorkom, veral op baie vatbare kultivars, veral suikermielie variëteite en ouer teelnyne by saadmielies.  
Dit is veral die geval wanneer:
  - Infestasiedruk hoog is, as gevolg van:
    - nabygeleë gasheerplante, bv. koring of suikerriet;
    - mid-somer plantings, wanneer natuurlike populasies van bladspringers baie hoog is.
  - Curaterr 10 GR** gebruik word op gronde met 'n hoë pH (sien "WAARSKUWINGS").

# Insekdoder



GEWAS/PLAAG	TOEDIENINGS-HOEVEELHEID	OPMERKINGS
<b>GRAANSORGHUM</b> Vals draadwurm	100 g/100 m lineêr in voor met planttyd.	Sal ook aalwurms onderdruk.
Aalwurms	150 g/100 m lineêr in voor met planttyd.	Sal ook stronkboorder en swartmieliekewer onderdruk.
Swartmieliekewer ( <i>Heteronychus</i> spp.) Stronkboorder ( <i>Busseola fusca</i> ), Stammaaier ( <i>Anatrichus erinaceus</i> ), <i>Astylus</i> larwes	200 g/100 m lineêr in voor met planttyd.	
<b>NOTA:</b> SIEN OPMERKINGS ONDER MIELIES: NOTAS		
<b>SONNEBLUM</b> Aalwurms	100 g/100 m lineêr in voor met planttyd.	Dien toe met planttyd -verwys na NOTAS 1 en 2 onder mielies.
<b>KOOL</b> Ruitrugmot larwes ( <i>Plutella maculipennis</i> )	200 g/100 m lineêr in voor met planttyd.	Dien toe onmiddellik voor uitplant. Maak seker dat die korreltoediener gekalibreer is en dat daar gedurig 'n eweredige vloei van korrels is onder die grondoppervlakte.
<b>SUIKERRIET</b> Aalwurms	30 kg/ha toegedien as 'n rybehandeling met planttyd.	<p>1. Toedieningshoeveelhede per lineêre meter ry hang van die spasiëring af. Dien toe: 3,0 g/m ry vir 1,0 m spasiëring; 3,6 g/m ry vir 1,2 m spasiëring; 4,2 g/m ry vir 1,4 m spasiëring; 4,8 g/m ry vir 1,6 m spasiëring;</p> <p>2. Dien d.m.v. 'n behoorlik gekalibreerde korreltoediener vóór plant in die plantvoor toe en maak die voor onmiddellik na plant toe.</p>
a) Plantriet		
b) Uitloopriet	25 kg/ha toegedien aan een of weerskante van die ry	<p>1. Dien d.m.v. 'n meganiëse toediener op klam grond toe nie later as 120 dae na sny van die vorige oes nie. Lande wat in die somer gesny is moet onmiddellik behandel word. Lande wat in Mei tot Augustus gesny word mag na eerste lentereën behandel word.</p> <p>2. Dien die <b>Curaterr 10 GR</b> in 'n vlak voor (5-10 cm diep) na aan die ry toe (maar vermy uitermatige meganiëse skade aan die wortels en stoele) en maak die vore onmiddellik toe.</p> <p>3. Toedieningshoeveelheid per lineêre meter ry hang van die spasiëring af. Dien toe: 2,5 g/m ry vir 1,0 m spasiëring; 3,0 g/m ry vir 1,2 m spasiëring; 3,5 g/m ry vir 1,4 m spasiëring; 4,0 g/m ry vir 1,6 m spasiëring;</p>

GEWAS/PLAAG	TOEDIENINGS-HOEVEELHEID	OPMERKINGS
<b>ORIËNTALE TABAK</b> (Wes-Kaapland) Blaaspoottjies (vektore van kromnestsiekte)	200 g/100 lineêre meter in voor met planttyd	Dien toe in plantvoor met planttyd of in 'n band ±8 cm breed oor plantry onmiddellik na plant. In geval van ligte, sanderige grond moet die toediening oor plantry voorkeur geniet maar met hierdie metode is onmiddellike inwassing van die middel noodsaaklik hetsy deur reën of sprinkelbesproeiing (±10 mm). Sal ook <i>Meloidogyne</i> spp. aalwurms onderdruk.
<b>TABAK</b> Amerikaanse bolwurm ( <i>Heliothis armigera</i> )	200 g/100 lineêre meter in voor met planttyd	Dien toe in plantvoor met plant tyd. Sal bolwurms beheer vir 6-7 weke na plant.
<b>AARTAPPELS</b> Swartmieliekewer ( <i>Heteronychus</i> spp.), Duisendpote	200 g/100 lineêre meter in voor met planttyd	Beperkte beheer van swartmieliekewer en duisendpote kan verwaag word met die gebruik van <b>Curaterr 10 GR</b> tydens plant vir 'n beperkte tydperk. Dien <b>Curaterr 10 GR</b> toe met plant aan weerskante van die plantvoor om seker te maak dat die korrels deeglik met die grond bokant die saad gemeng word. Vir verdere beheer later in die seisoen word die gebruik van 'n geregistreerde spuitmiddel aanbeveel. Nieteenstaande die gebruik van <b>Curaterr 10 GR</b> kan swartmieliekewer beskadiging nog steeds verwaag word.
<b>KORING</b> Besproeiing, Droëland Aalwurms	30 g/100 lineêre meter in voor met planttyd  10 kg/ha	Dien toe onder die saad in plantvoor met planttyd. Maak seker dat die korreltoediener behoorlik gekalibreer is en dat daar gedurig 'n eweredige vloei van korrels is onder die oppervlakte.  Dien toe met planttyd of onmiddellik daarna- met 'n "GANDY RHOBANDER" korreltoediener. Inkorporeer dadelik d.m.v. of genoegsame besproeiing of maak gebruik van vlak meganiëse toerusting (bv. eg).

© Bayer (Edms.) Bpk. Alle ongemagtigde reproduksie van hierdie etiket word verbied.

RSA/0318/Curaterr 10GR/Pamphlet Code:03294068F

**Bayer**

# Insecticide



## **WARNINGS :**

- **MAIZE AND CABBAGE:**  
APPLY ONLY AT PLANTING TIME. DO NOT HARVEST CABBAGES WITHIN 11 WEEKS AFTER APPLICATION. DO NOT USE ON QUICK-MATURING CABBAGE CULTIVARS. DO NOT ALLOW ANIMALS TO FEED ON TREATED MAIZE PLANTS OR WHEAT WITHIN 8 WEEKS OF APPLICATION UNDER NORMAL RAINFALL CONDITIONS. SHOULD DROUGHT CONDITIONS PREVAIL AFTER PLANTING, CONSULT YOUR NEAREST BAYER CROPS SCIENCE TECHNICAL ADVISER, BEFORE ALLOWING ANIMALS TO GRAZE. IN THE CASE OF MAIZE, AND CABBAGES CONTROL OF STALK BORER AND DIAMOND-BACK MOTH LARVAE RESPECTIVELY CAN BE EXPECTED TO DECLINE FROM 7-8 WEEKS AFTER APPLICATION.
- **WHEAT:**  
APPLY ONLY AT PLANTING TIME. DO NOT HARVEST WHEAT WITHIN 120 DAYS AFTER APPLICATION. DO NOT ALLOW TREATED WHEAT TO BE GRAZED WITHIN 120 DAYS AFTER APPLICATION.
- **SUGARCANE:**  
APPLY ONLY AT PLANTING TIME OR WITHIN 120 DAYS OF HARVESTING THE PREVIOUS CROP OF SUGARCANE. MAKE ONLY ONE APPLICATION PER CROP AT TIME OF PLANTING AND ALLOW 180 DAYS BETWEEN TREATMENT OF SUGARCANE AND HARVEST. AT PLANTING ENSURE THAT THE SETT PLACEMENT IS NOT LESS THAN 7,5 CM BENEATH SOIL SURFACE.
- **GRAIN SORGHUM:**  
APPLY ONLY AT PLANTING TIME. DO NOT ALLOW ANIMALS TO FEED ON TREATED SORGHUM PLANTS WITHIN 10 WEEKS OF APPLICATION. CONTROL OF STALK BORER CAN BE EXPECTED TO DECLINE FROM 7-8 WEEKS AFTER APPLICATION.
- **TOBACCO:**  
APPLY ONLY AT PLANTING TIME AND NOT LATER THAN ONE WEEK AFTER PLANTING IN LIGHT SANDY SOIL. DO NOT HARVEST WITHIN 80 DAYS OF TREATMENT. CURATERR 10 GR SHOULD NOT BE USED ON TOBACCO TRANSPLANTS WHICH ORIGINATE FROM SEED TRAYS.
- **SUNFLOWERS:**  
APPLY ONLY AT PLANTING TIME. DO NOT HARVEST WITHIN 11 WEEKS AFTER APPLICATION.
- **POTATOES:**  
APPLY ONLY AT PLANTING TIME, DO NOT HARVEST WITHIN 90 DAYS AFTER APPLICATION.

**NOTE:** The recommended withholding period between last application and harvest meets local residue requirements but may not meet export requirements. If the treated crop is intended for the export market, consult the relevant exporting body before application of the product, regarding pre-harvest interval requirements.

THE EFFICACY OF CURATERR 10 GR MAY BE ADVERSELY AFFECTED, WHEN USED IN ALKALINE, BRACKISH, OR SOILS OF HIGH pH (ABOVE 7).

NOT TO BE USED AS A SEEDDRESSING.

Handle with extreme care.

Poisonous when absorbed through the skin or swallowed or inhaled.

Very toxic to aquatic life with long lasting effects.

Toxic to bees and wildlife. To prevent bird poisoning ensure that granules are covered immediately. Take special precautions at the end of the planting furrow where spillage may occur.

Store under lock and key away from food and feedstuffs.

Keep out of reach of children, uninformed persons and animals.

In case of poisoning CALL A DOCTOR AND MAKE THIS LABEL AVAILABLE TO HIM/HER.

Ensure that no edible crop is planted on treated ground or within 10 meters of treated area within 100 days of application.

Inform staff (labourers, wives and children) of the potential danger of product and give full instructions on what to do in case of poisoning. Mark treated areas with appropriate danger signs. For the first 30 days after treatment it is advisable that rubber gloves and rubber boots be worn when handling the soil and when irrigating.

**RE-ENTRY:** Do not enter treated area within one day after treatment 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; COMPATIBILITY WITH OTHER SUBSTANCES NOT INDICATED ON THE LABEL AND THE OCCURRENCE OF RESISTANCE OF THE PEST 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 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 skin contact with the granules as well as inhalation of dust.

Wear protective clothing - overall, rubber gloves, rubber boots and goggles. Wash contaminated clothing daily.

Wash with soap and cold water after use.

Do not eat, drink or smoke during application or before washing hands and face.

Keep unprotected persons away from operating area.

Clean applicator after use or before using with other remedies. Dispose of wash water where it will not contaminate crops, grazing, rivers and dams.

Containers and packages must be completely emptied before being disposed of. Shake out thoroughly into the application hopper.

Destroy empty container and never use for any other purpose.

Prevent contamination of food, feedstuffs, drinking water and eating utensils.

Prevent contamination of springs, dams and rivers.



# Insecticide



## FIRST AID TREATMENT:

**General advice:** Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours or decomposition products.

Oxygen or artificial respiration if needed. Call a physician or poison control centre immediately.

**Skin contact:** Wash off thoroughly with plenty of soap and water, if available with polyethylene glycol 400, subsequently rinse with water.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

**Ingestion:** Rinse mouth. Induce vomiting only, if: 1. patient is fully conscious, 2. medical aid is not readily available, 3. a significant amount (more than a mouthful) has been ingested and 4. time since ingestion is less than 1 hour. (Vomit should not get into the respiratory tract.) Call a physician or poison control centre immediately.

## Most important symptoms and effects, both acute and delayed

**Symptoms:** Temporary blurred vision due to contraction of the pupils (miosis) following contact with the eyes., bradycardia, low blood pressure, salivation, bronchial hyper secretion, vomiting, diarrhoea, sweating, muscular fasciculation, spasm, breathing difficulties, respiratory paralysis, somnolence, coma, respiratory failure, hypothermia, convulsions, nausea.

## Indication of any immediate medical attention and special treatment needed

**Risks:** This product is a cholinesterase inhibitor carbamate.

## Treatment:

Monitor: respiratory, cardiac and central nervous system. Monitor: blood picture. Monitor: red blood cell and plasma cholinesterase. ECG - monitoring (Electrocardiogram). Oxygen or artificial respiration if needed. Keep respiratory tract clear.

In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.

The following antidote is generally accepted: atropine. Before antidote is administered, either clear symptoms of poisoning have to be present or the cholinesterase activity is inhibited to below 30% of normal. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. Contraindications: oximes (pralidoxime, obidoxime).

## DIRECTIONS FOR USE: USE ONLY AS DIRECTED

1. An accurate, properly calibrated granule applicator must be used. Downpipes from applicator into seeding furrow should be set at a sufficiently steep angle to ensure even flow of granules. Regular checks are advised to prevent blockages. Ensure an even distribution of the granules.
2. As with all soil-applied insecticides, sufficient moisture is necessary for the release of the active ingredient.
3. It is recommended that producers apply a suitable cutworm bait as recommended for cutworm control after planting and before germination to ensure an optimal stand.

## COMPATIBILITY:

**Curaterr 10 GR** should not be mixed and applied simultaneously with fertilizer from a single granule applicator.

CROP/PEST	DOSAGE RATE	REMARKS
<b>MAIZE</b> (including sweetcorn) False wireworms, Maize rootworm ( <i>Bufo</i> <i>murina</i> )	100 g/100 m linear in furrow at planting	Will also suppress nematodes and leafhoppers.
Nematodes, Leafhoppers (vectors of streak disease) (see Note 4 hereunder), Ground weevils ( <i>Prostrophus</i> spp.)	150 g/100 m linear in furrow at planting	Will also suppress stalk borer and black maize beetle.
<i>Astylus</i> larvae, Stalk borer ( <i>Busseola fusca</i> ), Black maize beetle ( <i>Heteronychus</i> spp.)	200 g/100 m linear in furrow at planting	Under known high infection pressure of <i>Astylus</i> larvae treat seed with a registered insecticide.

**NOTE:**

1. Ensure that the granule applicator is regularly calibrated and that the stream of granules into the plant furrow is regular at all times.
2. The granules should be applied directly onto the seed in the furrow.
3. Application of products for the control of black maize beetle is extremely critical. ENSURE THAT APPLICATION EQUIPMENT IS PROPERLY CALIBRATED.  
DOSAGE RATE MUST BE CHECKED SEVERAL TIMES EACH DAY.  
Notwithstanding the use of this product, black maize beetle damage should still be expected. Under conditions of high population pressure up to 20 % or more of the maize crop may be damaged or destroyed, in spite of having been treated.
4. There may not be adequate control of jassids (vectors of streak disease) on maize, and the incidence of streak may still occur, especially on very susceptible cultivars, particularly sweetcorn varieties and parent breeding lines used in seed maize.  
This is particularly so:
  - A. When infestation pressure is high, as a result of:
    - (i) close proximity of host plants, such as wheat or sugarcane;
    - (ii) mid-summer planting, when naturally occurring populations of jassids are very high.
  - B. When **Curaterr 10 GR** is used in soils of high pH (see "WARNINGS").

# Insecticide



CROP/PEST	DOSAGE RATE	REMARKS
<b>GRAIN SORGHUM</b> False wireworms	100 g/100 m linear in furrow at planting	Will also suppress nematodes.
Nematodes	150 g/100 m linear in furrow at planting	Will also suppress stalk borer and black maize beetle.
Stalk borer ( <i>Busseola fusca</i> ), Shoot fly ( <i>Antrichus erinaceus</i> ), <i>Astylus</i> larvae, Black maize beetle ( <i>Heteronychus</i> spp.)	200 g/100 m linear in furrow at planting	
<b>NOTE:</b> SEE REMARKS UNDER MAIZE-NOTE		
<b>SUNFLOWER</b> Nematodes	100 g/100 m linear in furrow at planting	Apply at planting -refer to NOTES 1 and 2 under maize.
<b>CABBAGE</b> Diamond-back moth larvae ( <i>Plutella maculipennis</i> )	200 g/100 m linear in furrow at planting	Apply immediately prior to transplanting. Ensure that the granule applicator is properly calibrated and that the stream of granules into the plant furrow is regular at all times and below the soil surface.
<b>SUGARCANE</b> Nematodes	30 kg/ha applied as a row treatment at planting	<p>1. Rate per linear metre depends on row spacing. Apply: 3,0 g/m of row for 1,0 m spacing; 3,6 g/m of row for 1,2 m spacing; 4,2 g/m of row for 1,4 m spacing; 4,8 g/m of row for 1,6 m spacing;</p> <p>2. Apply by means of a suitable calibrated granule applicator into the planting furrow prior to planting and cover the furrow immediately after planting.</p>
a) Plant cane		
b) Ratoon cane	25 kg/ha applied to one or both sides of the cane furrow	<p>1. Apply with mechanical applicator to moist soils not later than 120 days after cutting the previous crop. Crops cut in summer should be treated immediately. Crops cut between May and August may be treated after the first spring rains.</p> <p>2. Apply the <b>Curaterr 10 GR</b> in a shallow furrow (5-10 cm deep) to the cane row (but avoiding excessive mechanical damage to the stools and roots) and cover immediately.</p> <p>3. Rate per linear metre of row depends on spacing. Apply: 2,5 g/m of row for 1,0 m spacing; 3,0 g/m of row for 1,2 m spacing; 3,5 g/m of row for 1,4 m spacing; 4,0 g/m of row for 1,6 m spacing.</p>

CROP/PEST	DOSAGE RATE	REMARKS
<b>ORIENTAL TOBACCO</b> (Western Cape) Thrips (vectors of spotted wilt disease)	200 g/100 linear metre in furrow at planting	Apply in planting furrow at planting or in a band $\pm$ 8 cm over the plant row immediately after planting. In case of light, sandy soils preference should be given to the application over the plant row but with this method it is necessary that the compound be leached immediately into the soil either through rain or sprinkler irrigation ( $\pm$ 10 mm). Will also suppress <i>Meloidogyne</i> spp. nematodes.
<b>TOBACCO</b> American bollworm ( <i>Heliothis armigera</i> )	200 g/100 linear metre in furrow at planting	Apply in the planting furrow at planting. Will control bollworm for a period of 6-7 weeks after planting.
<b>POTATOES</b> Black maize beetle ( <i>Heteronychus</i> spp.), Millipedes	200 g/100 linear metre in furrow at planting	Limited control of black maize beetle and millipedes, with <b>Curaterr 10 GR</b> applied at planting can be expected for a limited period. <b>Curaterr 10 GR</b> to be applied at planting to both sides of the planting furrows so as to ensure thorough mixing of the granules with the soil above the seed. Sprays of a registered chemical is recommended for further control later in the season. Notwithstanding the use of <b>Curaterr 10 GR</b> damage by black maize beetle should still be expected.
<b>WHEAT</b> <b>Irrigated and dryland</b> Nematodes	30 g/100 linear metre in furrow at planting  10 kg/ha	Apply under the seed in planting furrow at planting. Ensure that the granule applicator is properly calibrated and that the stream of granules into the plant furrow is regular at all times below the soil surface.  Apply at planting or immediately thereafter with a properly calibrated "GANDY RHOBANDER" granular applicator and incorporate immediately either by sufficient irrigation or by shallow mechanical incorporation, e.g. harrow.

© Bayer (Pty) Ltd. All unauthorised reproduction of this label is forbidden.

