

ALVURAN[®] 100 G

Reg. No./Nr. L4881, Act No. / Wet Nr. 36 of/van 1947
Botswana Reg. No. W1301442, Act 18 of 1999
Namibian Reg. No. N-AR 2082

A granular systemic insecticide for use in various crops as a protection against the insect pests and nematodes as listed when applied as a furrow treatment at plant.

'n Sistemiese korrel insekdoder vir gebruik in verskeie gewasse as 'n ry toediening met plant vir beskerming teen insekte en aalwurms soos aangedui.

INSECTICIDE GROUP CODE 1A INSEKDODERGROEPKODE

ACTIVE INGREDIENT:

AKTIEWE BESTANDDEEL:

Carbofuran..(carbamate).....100 g/kg..... Karbofuran (karbamaat)..... 100 g/kg

Net Mass **Kg** Netto Massa



REGISTRATION HOLDER / REGISTRASIEHOUER:

Nulandis® (A division of AECI Limited) / Nulandis® ('n Afdeling van AECI Beperk)

Reg. No. / Nr. 1924/002590/06
P.O. Box / Posbus 14418
Witfield, 1467
Tel : (011) 823 8000

ALVURAN[®] is a registered trademark of AECI Limited (Nulandis® a division of AECI Limited) / 'n geregistreerde handelsmerk van AECI Beperk (Nulandis® 'n afdeling van AECI Beperk)

IN CASE OF POISONING PLEASE PHONE / IN GEVAL VAN VERGIFTIGING SKAKEL: 0861 555 777/082 4468946

Batch No:

Lotnommer:

Date of Manufacture:

Vervaardigingsdatum:

UN No./VN Nr: 2757 Carbamate, pesticide,solid toxic



**HARMFUL
SKADELIK**



ALVURAN[®] 100 G

Reg.No.L4881, Act No. 36 of 1947
Botswana Reg. No. W1301442, Act 18 of 1999

A granular systemic insecticide for use in various crops as a protection against the insect pests and nematodes as listed when applied as a furrow treatment at plant.

INSECTICIDE GROUP CODE 1A

ACTIVE INGREDIENT:

Carbofuran (carbamate) 100 g/kg

REGISTRATION HOLDER:

Nulandis® (A division of AECL Limited)

Reg. No. 1924/002590/06

P.O. Box 14418

Witfield, 1467

Tel : (011) 823 8000



HARMFUL

WARNINGS:

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.

MAIZE AND CABBAGES:

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 WITHIN 8 WEEKS OF APPLICATION UNDER NORMAL RAINFALL CONDITIONS. SHOULD DROUGHT CONDITIONS PREVAIL AFTER PLANTING CONSULT YOUR NEAREST NULANDIS 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.

POTATOES:

APPLY ONLY AT PLANTING TIME, DO NOT HARVEST WITHIN 90 DAYS 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 HARVESTING.

AT PLANTING ENSURE THAT THE SETT PLACEMENT IS NOT LESS THAN 7.5 cm BENEATH THE SOIL SURFACE.

SUNFLOWERS:

APPLY ONLY AT PLANTING TIME. DO NOT HARVEST WITHIN 11 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.

ALVURAN 100 G SHOULD NOT BE USED ON TOBACCO TRANSPLANTS WHICH ORIGINATE FROM SEED TRAYS.

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.

Handle with care.

Poisonous by skin contact or when inhaled or when swallowed.

Toxic to fish, bees and wildlife.

Do not leave granules exposed on the soil surface, as **ALVURAN 100 G** is toxic to birds 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.

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

Store in a tightly closed and secured container in a cool, dry, well-ventilated area away from seed, fertilizer, food and feeds.

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

This product may under no circumstances be used as a seeddressing.

Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.

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

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 PESTS AGAINST THE REMEDY CONCERNED AS WELL AS BY THE METHOD, TIME AND ACCURACY OF APPLICATION. THE REGISTRATION HOLDER FURTHERMORE DOES NOT ACCEPT RESPONSIBILITY 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:

Do not inhale dust.

Avoid contact with eyes, skin and clothing.

Wear suitable protective clothing (overalls, rubber boots, gloves, face shield, appropriate respirator) during application.

Wash contaminated clothing immediately after use.

Wash thoroughly with soap and water immediately after use or accidental contact.

Do not eat, drink or smoke whilst applying or before washing hands and face and changing clothing.

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

Prevent contamination of other crops, grazing, springs, rivers, dams or any other areas not under treatment

Thoroughly clean the application equipment after use and dispose of wash water where it will not contaminate crops, grazing, boreholes, rivers, or dams. Bury spilt granules in such a way that it will not contaminate any water sources.

Containers / bags and packages must be completely emptied before being disposed of. Shake out thoroughly into the applicator and destroy the empty container/bag thereafter in the described manner.

Destroy empty container by perforation and flattening and dispose of it in a safe manner and never use for any other purpose.

SYMPTOMS OF HUMAN POISONING:

Headache, faintness, fatigue, giddiness, excessive sweating, nausea, abdominal pains, vomiting, blurred vision, muscle twitching, small pupils, respiratory distress, coma.

FIRST AID TREATMENT:

Remove patient from source of poisoning to a well-ventilated area. Remove contaminated clothing and rinse contaminated body area thoroughly with plenty of soap and cold water.

Do not rub skin. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use. Thoroughly clean shoes before re-use. Get medical attention.

Flush contamination out of eyes with clean water for 15 minutes.

If product has been swallowed – give a slurry of activated charcoal in water to drink. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

When inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Repeat until vomit is clear and free from the smell of poison.

Take the patient immediately to the nearest physician.

Administer artificial respiration or closed chest cardiac massage if necessary.

NOTE TO PHYSICIAN:

Administer Atropine sulphate (2-4 mg) intravenously every 5-10 minutes until first signs of atropinization (dry, flushed skin and tachycardia) appears.

Pralidoxime (2PAM, Protopam and other oxides) are contra-indicated.

RESISTANCE WARNING:

For resistance management, **Alvuran 100 G** is a group 1A insecticide. Any insect population may contain individuals naturally resistant to **Alvuran 100 G** and other group 1A insecticides. The resistant individuals dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **Alvuran 100 G** or other group 1A insecticides

To delay insecticide resistance:

- Avoid exclusive repeated use of insecticides from the same insecticide Group Code. Alternate or tank mix with products from different insecticide Group Codes.
- Integrate other control methods [chemical, cultural, biological] into insect control programmes.

For specific information on resistance management contact the registration holder of this product.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

Apply only at planting.

A reduction in efficacy against stalk borer can be expected from 6-8 weeks following treatment.

Ensure correct calibration of applicator prior to application on a regular basis.

Apply granules directly into the plant furrow surrounding the seed.

THE ACTIVITY OF ALVURAN 100 G MAY BE INFLUENCED BY ALKALINE SOILS AND SOILS WITH A HIGH SALINITY AND pH ABOVE 7, RESULTING IN REDUCED EFFICACY.

APPLICATION TABLE:

CROP/PEST	RATE/ 100 m row	APPLICATION METHOD
CABBAGES Diamond-back moth larvae (<i>Plutella maculipennis</i>)	200 g	Apply in the row prior to planting. Ensure even application.
GRAIN SORGHUM False wire worm (<i>Tenebrionidae</i> spp.)	100 g	Apply at plant into the furrow. Will suppress nematodes.
Nematodes	150 g	Apply at plant into the furrow. Will suppress stalk borer and black maize beetle.
Black maize beetle (<i>Heteronychus</i> spp.) Spotted Maize beetle larvae (<i>Astylus</i> spp.) Stem Maggot (<i>Anatrichus erinaceus</i>) Stalk borer (<i>Busseola fusca</i>)	200 g	Apply at plant into the furrow. Some damage may still arise following treatment, particularly where high infestations of spotted maize beetle and black maize beetle can damage up to 20 % and more of plant stand.
MAIZE/SWEETCORN False wire worm (<i>Tenebrionidae</i> spp.) Rootworm (<i>Buphonella murina metallica</i>)	100 g	Apply in the furrow at planting. Will suppress nematodes and leafhoppers.
Leafhoppers (<i>Cicadulina mbila</i>) Ground weevils (<i>Protostrophus</i> spp.) Nematodes	150 g	Apply in the furrow at planting. Symptoms of streak virus may still occur following treatment in situations of high infestation pressure or susceptible varieties. Will suppress stalk borer and black maize beetle.
Black maize beetle (<i>Heteronychus</i> spp.) Spotted Maize beetle larvae (<i>Astylus</i> spp.) Stalk borer (<i>Busseola fusca</i>)	200 g	Apply in the furrow at planting. Some damage may still occur following treatment, particularly in the case of high infestations of spotted maize beetle and black maize beetle where up to 20% or more damage of plants may occur.
POTATOES Black maize beetle (<i>Heteronychus</i> spp.) Millipedes	200 g	Apply into the row at planting ensuring distribution onto sides of the furrow to facilitate thorough mixing into the soil above the seed. This treatment will only provide limited control following application and damage symptoms can still be expected.

CROP/PEST	RATE/ 100 m row	APPLICATION METHOD
SUGARCANE Nematodes (Plant cane) ----- (Ratoon cane)	30 kg/ha ----- 25 kg/ha	Apply into the furrow prior to planting and cover immediately after cane is planted. Rate per linear metre depends on row spacing. ROW SPACING: 1 m 1.2 m 1.4 m 1.6 m RATE: g/m row: 3 g 3.6 g 4.2 g 4.8 g ----- Apply to one or both sides of the row in a furrow 5-10 cm deep and cover immediately. Avoid damage to roots and stools. Treatment to be applied to moist soil no later than 120 days after cutting the previous crop. Summer Harvesting: Apply immediately after cutting. May-August Harvesting: Treat after the first spring rain. Rate per linear metre depends on row spacing. ROW SPACING: 1 m 1.2 m 1.4 m 1.6 m RATE: g/m row: 2.5g 3.0 g 3.5 g 4 g
SUNFLOWERS Nematodes	100 g	Apply into the furrow directly on top of the seed at plant.
TOBACCO African bollworm (<i>Helicoverpa armigera</i>)	200 g	Apply into the furrow at planting. Will control bollworm for 6-7 weeks following treatment.
ORIENTAL TOBACCO Thrips	200 g	<u>WESTERN CAPE:</u> Apply into the furrow at planting or as a 8 cm wide band over the row after planting. In light sandy soils the post plant treatment must be immediately washed into the soil with either rain or irrigation (+/- 10 mm). Will suppress <i>Meloidogyne</i> eelworm (nematode) populations.
WHEAT Nematodes	30 g	Irrigated or Dryland: Apply into the furrow under the seed at planting, ensuring even distribution of granules.
	10 kg/ha	Apply at plant or immediately afterwards. Incorporate immediately with either suitable mechanical equipment or sufficient irrigation.

ALVURAN[®] 100 G

Reg. Nr. L4881, Wet Nr. 36 van 1947

'n Sistemiese korrel insekdoder vir gebruik in verskeie gewasse as 'n ry toediening met plant vir beskerming teen insekte en aalwurms soos aangedui.

INSEKDODERGROEPKODE 1A

AKTIEWE BESTANDDEEL:

Karbofuran (karbamaat) 100 g/kg

REGISTRASIEHOUER:

Nulandis® ('n Afdeling van AECl Beperk)

Reg. Nr. 1924/002590/06

Posbus 14418

Witfield, 1467

Tel : (011) 823 8000



SKADELIK

WAARSKUWINGS:

AARTAPPELS:

DIE SLEGS MET PLANTTYD TOE. MOENIE OES BINNE 90 DAE NA TOEDIENING NIE.

GRAANSORGHUM:

DIE SLEGS TOE MET PLANTTYD. MOENIE BEHANDELDE SORGHUMLANTE VIR DIERE VOER BINNE 10 WEKE NA TOEDIENING NIE.

'N DALENDE NEIGING IN STRONKBOORDER BEHEER KAN VANAF 7-8 WEKE NA TOEDIENING VERWAG WORD.

KORING:

DIE SLEGS TOE MET PLANTTYD. MOENIE KORING OES BINNE 120 DAE NA TOEDIENING NIE.

MOENIE BEHANDELDE KORING BINNE 120 DAE VAN TOEDIENING LAAT BEWEI NIE.

MIELIES EN KOOL:

DIE SLEGS TOE MET PLANTTYD. MOENIE KOOLPLANTE BINNE 11 WEKE NA TOEDIENING OES NIE. MOENIE OP VINNIG-GROEIENDE KOOLVARIËTEITE GEBRUIK NIE. MOENIE BEHANDELDE MIELIEPLANTE VIR DIERE VOER BINNE 8 WEKE NA TOEDIENING, ONDER NORMALE REËNVAL TOESTANDE, NIE. INDIEN DROOGTE TOESTANDE NA PLANTTYD SOU VOORTDUUR RAADPLEEG U NAASTE NULANDIS TEGNIESE ADVISEUR, VOORDAT DIERE TOEGELAAT WORD OM TE WEI.

IN DIE GEVAL VAN MIELIES EN KOOL KAN 'N DALENDE NEIGING IN STRONKBOORDER BEHEER EN RUITRUGMOT LARWES, ONDERSKEIDELIK VANAF 7-8 WEKE, NA TOEDIENING VERWAG WORD.

SONNEBLOM:

DIE SLEGS TOE MET PLANTTYD. MOENIE OES BINNE 11 WEKE NA TOEDIENING NIE.

SUIKERRIET:

DIE SLEGS TOE MET PLANTTYD OF BINNE 120 DAE VAN OES VAN VORIGE OES VAN SUIKERRIET.

DIE NET EEN TOEDIENING PER OES TOE GEDURENDE PLANTTYD EN LAAT 180 DAE TOE TUSSEN BEHANDELING VAN SUIKERRIET EN OES.

MET PLANTTYD VERSEKER DAT STEGGIES 'N MINIMUM PLANTDIEPTE VAN 7,5 cm ONDER DIE GRONDOPPERVLAK HET.

TABAK:

DIE SLEGS TOE MET PLANTTYD EN NIE LATER AS EEN WEEK NA PLANT IN LIGTE SANDERIGE GROND NIE. MOENIE BLARE OES BINNE 80 DAE NA BEHANDELING NIE.

ALVURAN 100 G MAG NIE GEBRUIK WORD OP PLANTJIES WAT IN SAAILAAIE GEKWEEK IS 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.

Hanteer versigtig.

Giftig deur velkontak of wanneer ingeasem of ingesluk word.

Giftig vir vis, bye en wild.

Verseker dat korrels met grond bedek is aangesien **ALVURAN 100 G** uiters giftig vir voëls en wild is.

Voorkom voëlvergiftiging deur te verseker dat die korrels onmiddellik bedek word.

Spesiale voorsorg is noodsaaklik op die einde van die plantrye waar vermorsing mag voorkom.

Verseker dat geen eetbare gewas op behandelde grond of binne 10 meter van behandelde gebied geplant word, binne 100 dae vanaf toediening nie.

Bêre in 'n verseëlde houer in 'n koel, droë plek weg van voedsel, voer, kunsmis en saad.

Hou buite bereik van kinders, diere en oningeligte persone.

Hierdie produk mag onder geen omstandighede as 'n saadbehandeling gebruik word nie.

Herbetreding: Moenie behandelde gebied betree vir 1 dag na toediening, tensy beskermende oorklere gedra word.

In geval van vergiftiging - ONTBIED 'N GENEESHEER EN STEL HIERDIE ETIKET AAN HOM/HAAR BESKIKBAAR.

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 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 VERSKAFFER IN DIE GEVAL VAN ENIGE ONSEKERHEID.

VOORSORGMAATREËLS:

Moenie stof inasem nie.

Vermý kontak met oë, vel en klere.

Dra beskermende klere (oorpak, rubberstewels, rubberhandskoene, geskikte respirator en gesigskerm) tydens toediening.

Was besoedelde klere onmiddellik na gebruik.

Was deeglik met seep en water onmiddellik na hantering of toevallige velkontak.

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

Voorkom besoedeling van voedsel, voer, drinkwater en eetgerei.

Voorkom besoedeling van ander gewasse, weiding, fonteine, riviere, damme en enige ander gebied wat nie onder behandeling is nie.

Maak toedieningsapparaat deeglik skoon na gebruik en verseker dat die uitspoelwater nie gewasse, weiding riviere en damme besoedel nie en begrawe oorblyfsels weg van enige waterbronne.

Skud die leë houer/sak oor die spuit- of mengtenk en skud deeglik uit om te verseker dat die houer/sak leeg is voordat die houer/sak vernietig word. Vernietig leë houer/sak deur plat te slaan en gate daarin te maak en doen weg daarmee op 'n veilige manier.

Moenie leë houer vir enige ander doel hergebruik nie.

SIMPTOME VAN VERGIFTIGING:

Hoofpyn, vermoeidheid, swakheid, duiseligheid, oormatige sweet, mislikheid, buikpyn, braking, buikloop, versteurde gesigsvermoë, spiertrekkings, verkleinde pupille, stuiptrekkings, asemhalingsnood, bewusteloosheid.

NOODHULPBEHANDELING:

Verwyder pasiënt van die bron van vergiftiging, na 'n koel en goed geventileerde omgewing.

Verwyder besoedelde klere en spoel die besmette liggaamsdele af met baie seep en koue water. Moenie vel vrywe nie. Spoel onmiddellik met genoegsame water vir minstens 15 minute terwyl besoedelde klere en skoene uitgetrek word. Was klere voor hergebruik. Maak skoene deeglik skoon voor dit weer aangetrek word. Verkry mediese hulp.

Besmette oë moet vir 15 minute met skoon water uitgespoel word.

Indien produk ingesluk is, gee aan pasiënt geaktiveerde houtskool in water om te drink. Moenie braking veroorsaak tensy so aanbeveel deur mediese personeel. Moet nooit iets per mond aan 'n bewustelose persoon toedien nie. Maak styfpassende klere soos bv. kraag, das, belt of lyfband los. Neem die pasiënt na die naaste geneesheer.

Wanneer ingeasem, verwyder na vars lug. Indien ophou asemhaal, dien kunsmatige asemhaling toe. Indien asemhadling bemoeilik word, gee suurstof. Verkry mediese hulp.

Pas kunsmatige asemhaling of geslote hartmassering toe indien nodig.

NOTA AAN GENEESHEER:

Dien Atropiensulfaat (2-4 mg) elke 5-10 minute binne-aars toe tot by eerste tekens van atropinisasie (droë, gloeiende vel en tagikardie).

Pralidoxine (2PAM, Protopam) en ander oksieme moenie gebruik word nie.

WEERSTANDSWAARSKUWING:

Vir weerstandsbeheer is **Alvuran 100 G** as 'n groepkode 1A insekdoder geklassifiseer. Enige insekpopulasie sal enkele individue bevat wat weerstand het teen **Alvuran 100 G** en ander groepkode 1A insekdoders. Die weerstandbiedende individue domineer die insekpopulasie wanneer hierdie insekdoder herhaaldelik gebruik word. Die weerstandbiedende insekte mag dalk nie deur **Alvuran 100 G** of ander groepkode 1A insekdoders beheer word nie.

Om weerstand teen insekdoders te vertraag:

- Verminder die eksklusiewe herhaaldelike gebruik van insekdoders in dieselfde insekdodergroepkode. Wissel af met, of gebruik tenkmengsels van produkte in verskillende insekdodergroepcodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in insekbeheerprogramme.

Vir spesifieke inligting oor weerstandsbestuur, kontak die registrasiehouer van hierdie produk

GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS AANGEDUI

Dien slegs toe met planttyd.

'n Dalende neiging in stronkboorder beheer vanaf 6-8 weke na toediening kan verwag word.

Maak seker dat die korreltoediener korrek gekalibreer is op 'n gereelde basis.

Die korrels moet direk in die plantvoor toegedien word, sodat saad omring word.

DIE EFFEKTIWITEIT VAN ALVURAN 100 G MAG NADELIG BEÏNVLOED WORD BY ALKALIESE EN BRAK GROND MET 'N pH BO 7.

TOEDIENINGSTABEL:

GEWAS/PLAAG	TOEDIENING PER 100 m RY	OPMERKINGS
AARTAPPELS Swartmieliekewer (<i>Heteronychus</i> spp.) Duisendpote	200 g	Dien toe met plant aan weerskante van die plantvoor om seker te maak dat die korrels deeglik met die grond bokant die saad gemeng word. Nieteenstaande die gebruik van hierdie middel kan beskadiging nog steeds verwag word.
GRAANSORGHUM Valsdraadwurms (<i>Tenebrionidae</i> spp.)	100 g	Dien toe in voor met plant. Sal aalwurms onderdruk.
Aalwurms	150 g	Dien toe in voor met plant. Sal stronkboorder en swartmieliekewer onderdruk.
Swartmieliekewer (<i>Heteronychus</i> spp.) Astylus Larwes (<i>Astylus</i> spp.) Stammaaier (<i>Anatrichus erinaceus</i>) Stronkboorder (<i>Busseola fusca</i>)	200 g	Dien toe in voor met plant. Beskadiging kan nog steeds verwag word onder toestande van hoë populasiedruk van <i>Astylus</i> larwes en swartmieliekewer waarmee tot 20% of meer beskadiging van plante kan voorkom.
KOOL Ruitrugmot larwes (<i>Plutella maculipennis</i>)	200 g	Dien toe in voor, vóór plant. Verseker eweredige toediening.
KORING Aalwurms	30 g	Droëland of Besproeiing: Dien toe onder die saad in plantvoor met planttyd. Maak seker dat korrels eweredig versprei word.
	10 kg/ha	Dien toe met plant of direk na plant. Inkorporeer dadelik deur middel van óf genoegsame besproeiing óf gebruik van vlak meganiese toerusting.
MIELIES/ SUIKERMIELIES Valsdraadwurms (<i>Tenebrionidae</i> spp.) Wortelwurms (<i>Buphonella murina metallica</i>)	100 g	Dien toe in voor met plant. Sal ook aalwurms en blaarspringers onderdruk.
Blaarspringers (<i>Cicadulina mbila</i>) Grondkalanders (<i>Protostrophus</i> spp.) Aalwurms	150 g	Dien toe in voor met plant. Simptome van streepsiekte mag nogtans voorkom onder toestande van hoë populasiedruk of vatbare kultivars. Sal stronkboorder en swartmieliekewer onderdruk.
Swartmieliekewer (<i>Heteronychus</i> spp.) Astylus Larwes (<i>Astylus</i> spp.) Stronkboorder (<i>Busseola fusca</i>)	200 g	Dien toe in voor met plant. Beskadiging kan nog steeds verwag word onder toestande van hoë populasiedruk van <i>Astylus</i> larwes en swartmieliekewer waarmee tot 20% of meer beskadiging van plante kan plaasvind.

SONNEBLOMME Aalwurms	100 g	Dien toe in voor direk bo-op saad tydens plant.
SUIKERRIET Aalwurms (Planriet)	30 kg/ha	Dien middel in voor met plant toe en maak die voor onmiddellik na plant toe. Toedieningshoeveelhede per liniêre meter in 'n ry hang van spasiëring af: RY SPASIËRING: 1 m 1.2 m 1.4 m 1.6 m DOSIS: g/m ry: 3 g 3.6 g 4.2 g 4.8 g
(Oorstaanriet)	25 kg/ha	Dien toe in voor, aan een of altwee kante van ry in klam grond, nie later as 120 dae na sny van vorige oes nie. Dien in 'n vlak voor (5-10 cm diep) na aan die ry toe (vermy beskadiging van wortels en stoele) en maak die vore onmiddellik toe. Somer Oes: Dien onmiddellik na sny toe. Mei-Augustus Oes: Behandel na die eerste lente reën. Toedieningshoeveelhede per liniêre meter in 'n ry hang af van die spasiëring. RY SPASIËRING: 1 m 1.2 m 1.4 m 1.6 m DOSIS: g/m ry: 2.5 g 3 g 3.5 g 4 g
TABAK Afrika bolwurm (<i>Helicoverpa armigera</i>)	200 g	Dien toe in voor met plant. Sal bolwurms beheer vir 6-7 weke na behandeling.
ORIËNTALE TABAK Blaaspootjies	200 g	<u>WES-KAAP:</u> Dien toe in voor met plant óf as 'n 8 cm wye band oor plantry, onmiddellik na plant. In geval van sanderige grond is onmiddellike inwassing van die middel noodsaaklik hetsy deur reën óf sprinkelbesproeiing (±10 mm). Sal ook <i>Meloidogyne</i> spp. aalwurms onderdruk.

