



ALANEX 480 CS

Reg No L 6468 Act / Wet 36 of 1947
N – AR 0484

A selective capsule suspension pre-emergence herbicide for the control of annual grasses and certain broadleaf weeds in maize, sweetcorn, groundnuts, soyabeans, sunflower, transplanted cabbage, broccoli and brussel sprouts, pine apples, potatoes and sugar cane.	'n Selektiewe kapsulesuspensie vooropkom onkruidodder vir die beheer van eenjarige grasse en sommige breëblaar onkruid in mielies, suikermielies, grondbone, sojabone, sonneblom, uitgeplante kopkool, broccoli en brusselse spruite, pynappels, aartappels en suikerriet.
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HRAC HERBICIDE GROUP CODE	K 3	HRAC ONKRUIDDODER GROEPKODE
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ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

Alachlor (chloro-acetanilide) 480 g / l Alachlor (chloorasetanilied)

NET VOLUME / NETTO VOLUME

..... l

REGISTRATION HOLDER / REGISTRASIEHOUER

Makhteshim-Agan SA (Pty) LTD
Reg No. 1992/001741/07
21 Viben Street
Brackenfell
7560

Batch number Lotnommer
Date of Manufacture Datum van Vervaardiging

**ALANEX 480 CS is the registered trademark of Makhteshim-Agan Israel.
ALANEX 480 CS is die geregistreerde handelsmerk van Makhteshim-Agan, Israel.**

UN NR: 2903
(green / groen)



WARNINGS:

- Poisonous if swallowed.
- Can be toxic to fish.
- Store in a cool dry place away from food, feeds, seed, fertilizers and other agricultural chemicals.
- Keep out of reach of children, uninformed persons and animals.

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 the occurrence of resistance of weeds against the product and the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damages 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 breath fume or spray mist.
- Wear rubber gloves when handling.
- In case of accidental contact with skin or eyes, wash immediately with plenty of water and in the case of eyes, get medical attention, if necessary.
- Do not smoke, eat or drink while using, or before washing hands and face and change of clothing.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- Prevent drift and / or contamination onto susceptible of edible crops, grazing, rivers, dams or any other areas not under treatment.

IMPORTANT:RINSING OF CONTAINER – TRIPLE RINSE:

Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsing of the container to the contents of the spray tank before destroying the container. Do not re-use empty container for any other purpose.

RESISTANCE WARNING:

For resistance management ALANEX 480 CS is a group code K 3 herbicide. Any weed population may contain individuals naturally resistant to ALANEX 480 CS and other group code K 3 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by ALANEX 480 CS or any other group code K 3 herbicides. To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank mix with products from different herbicide codes.
- Integrate control methods (chemical, cultural and biological) into weed control programs.

For specific information contact the local distributor agent or the registration holder.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED**GENERAL INFORMATION**

Ensure that all application equipment is correctly calibrated. A deep ploughing, operation just before planting is essential for:

- a. Improved *Cyperus esculentus* (yellow nutsedge) control. See VARIABLE WEED CONTROL at the end of the label.
- b. Breaking of compaction layers in the soil which could lead to waterlogged conditions after heavy rains and subsequent possible damage to crops.

Prepare a fine even seedbed free of weeds, excessive plant rest and clods.

Do not apply **ALANEX CS** to inbred parent plants of maize hybrids or onto experimental or newly released cultivars, without first referring to the manufacturers or seed suppliers.

Do not apply to poorly drained soils. Water logging in the presence of herbicides could cause stand reduction and / or stunted growth.

Do not apply **ALANEX CS** to sandy soils which are subject to wind erosion with a clay content of 0 – 10 % in the Northwest or Northern Free State provinces.

Before **ALANEX CS** is used in combination with other herbicides, the labels of those herbicides must be read and all recommendations must be adhered to.

Flood irrigation can reduce the efficacy of weed control.

MIXING INSTRUCTIONS

Shake the container well before use. Close the container tightly after use.

Fill the spray tank half with clean water, add the required volume of **ALANEX CS** to the spray tank while agitating. Fill the tank with water while maintaining the agitation.

When **ALANEX CS** is used in combination with other herbicides, the following procedure must be followed:

- a. Fill spray tank three quarters with clean water. Add required volume of the complementary herbicide while agitating.
- b. Add clean water to the spray tank until its capacity is nearly reached while maintaining the agitation.
- c. Add the required volume of **ALANEX CS** and fill to capacity with water while still agitating.
- d. Thorough agitation is essential during the mixing and application operations.
- e. Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank overnight.

- f. All application equipment must be flushed out thoroughly after completion of the spraying of operation.

APPLICATION

Pre-emergent applications of **ALANEX CS** or tank mixes with **ALANEX CS** must be applied preferable at planting or immediately after planting and as soon as possible after the last cultivation but not later than two days after planting. For overall ground application use 150 – 300 l spray mixture per ha and for aerial application 30 to 40 l spray mixture per ha.

Continuous rain or overhead irrigation of a least 10 – 15 mm within 5 days of application is necessary for effective weed control.

If it does not rain and weeds start to emerge a shallow cultivation must be done to destroy these weeds and to mix the herbicide with the top 10 – 20 mm soil.

If a crust has formed on the soil it can be broken to assist crop germination by a shallow cultivation in the same direction as the planted rows.

Weed control may be reduced if untreated soil is brought to the surface by cultivation.

AERIAL APPLICATION:

Aerial application of **ALANEX 480 CS** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Pesticides). 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:

- Volume: A spray mixture volume of 30 litres per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aurally at a lower volume rate than recommended.
- Droplet coverage: 30 to 40 droplets per cm² must be recovered at the target area.
- Droplet size: A droplet spectrum with a VMD of 350 to 450 microns is recommended. Limit the production of fine droplets less than 150 microns (high drift and evaporation potential) to a minimum.
- Flying height: Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when the aircraft dives, is in a climb or when banking
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 to 75% of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers of a whirling hygrometer, should not exceed 8°C.
- Stop spraying if the wind speed exceeds 15km/h.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80% and above) may lead to the following:
 - a) reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
 - b) damage to other sensitive crops and/or non-target areas through drifting of the suspended spray

cloud away from the target field.

- Ensure that the Aerial Spray Operator knows exactly which fields to spray.
- Obtain an assurance from the Aerial Spray Operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

APPLICATION RATES

MAIZE

Pre-emergence application to be done at planting or just after planting but not later than two days after planting. Adjust the rates accordingly for band applications.

1. Pre-emergent control of mainly annual grasses and some broadleaf weeds.

% SOIL CLAY	DOSAGE ALANEX CS (l / ha)	REMARKS
0 - 15	3,2	ALANEX CS is not recommended on soils with a clay content 0 – 10 % in the Northwest and Northern Free State provinces that is subject to wind erosion.
16 - 20	3,6	
> 21	4,0	

2. Pre-emergent control of annual grasses and broadleaf weeds in a tank mix with ATRANEX 500 SC.

CLAY %	DOSAGE RATE ALANEX CS (l / ha)	DOSAGE RATE ATRANEX 500 SC (l / ha)	REMARKS
0 – 10	3,2	1,75 – 2,25	See Weed Spectrum below for details. Consult the ATRANEX label for application. In a crop rotation system where short residual periods are required, use 1,5 l ha ATRONEX on soils up to 35% clay and 2,0 l / ha ATRANEX per ha on soils with more than 35 % clay. Do not use ALANEX 480 CS on soils with 0 – 10 % clay in the Northwest and Northern Free State provinces which are subject to wind erosion.
11 – 16	3,2	2,5	
17 – 20	3,6	2,75	
21 – 35	4,0	2,75 – 3,25	
> 35	4,0	4,0	

3. Pre-emergent control of annual grasses and broadleaf weeds in a tank mix with SUPRANEX 600 SC.

CLAY %	DOSAGE RATE ALANEX CS (l / ha)	DOSAGE RATE SUPRANEX 600 SC (l / ha)	REMARKS
0 – 10	3,2	2,0	See Weed Spectrum below for weeds controlled. Consult the SUPRANEX 600 SC label for application details and use restrictions. Do not use on ALANEX 480
11 – 15	3,2	2,7	
16 – 20	3,6	2,7	
21 – 35	4,0	3,3	

> 35	4,0	4,0	CS on soils with 0 – 10 % clay in the Northwest and North Free State provinces which are subject to wind erosion.
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4. **ALANEX CS** applied pre-emergence for the control of annual grasses followed by a post-emergence application of **ATRANEX SC** or **SUPRANEX 600 SC** for extended control of broadleaf weeds. **ATRANEX 500 SC** or **SUPRANEX 600 SC** can be applied after a cultivation or early post emergence of broad leaf weeds in a tank mix with 2,4-D Amien 480 g / l .

CLAY %	DOSAGE RATE ALANEX CS l / ha	DOSAGE RATE ATRANEX 500 SC l / ha	DOSAGE RATE SUPRANEX 600 SC l / ha	TANK MIX ATRANEX OR SUPRANEX WITH 2,4-D l / ha
0 – 10	3,2	2,5	2,0	Atranex 2,0 l + 2,4D
11 – 15	3,2	3,25	2,7	Amine 480 0,5 l – 0,75 l
16 – 20	3,6	3,25	2,7	Supranex 1,7 l + 2,4D
21 – 35	4,0	4,0	3,3	Amine 480 0,5 l – 0,75 l
>	4,0	4,75 – 5,0	4,0	Do not use ALANEX 480 CS on soils with 0 – 10 % clay in the Northwest and Northern Free State which are subjected to wind erosion.

B. SWEETCORN

Apply **ALANEX CS** as an early post plant pre-emergence application. Sweet corn cultivars have varying degrees of susceptibility to **ALANEX CS**. Consult your seed supplier or chemical supplier before treating with **ALANEX CS**.

CLAY %	ALANEX CS l / ha
0 – 10	Not recommended
11 – 15	3,2
16 – 20	3,6
21 – 35	4,0
> 35	Not recommended

C. GROUNDNUTS

Application to be made pre-emergence of crop and weeds at planting or within two days after planting. Mainly annual grasses and some broadleaf weeds will be controlled.

Dosage 3,2 l – 4,0 l / ha

Use the lower rate on lighter soils.

D. PINEAPPLES

Apply pre-emergence of weeds.

Dosage 3,2 l / ha on soils 0 – 16 % clay and 4,0 l / ha on soils > 16 % clay.

Will control annual grasses, some broadleaf weeds and under certain conditions suppression of yellow nutsedge.

E. POTATOES

Apply pre-emergence of weeds and crop.

Dosage 3,2 l / ha on soils with a clay content of 0 – 16 % en 4,0 l / ha on soils with a clay content > 16 %.

Although **ALANEX CS** is a pre-emergence herbicide it can be applied on potatoes in combination with **PARAQUAT** containing product as an early post-emergence application

PARAQUAT dosage rate is 1,0 – 2,0 l / ha. **ALANEX CS** / **PARAQUAT** tank mixture can only be supplied up to 10 % potato emergence.

F. SOYABEANS

Apply as a pre-emergent application of the crop and weeds for the control of annual grasses some broadleaf weeds and the suppression of yellow nutgrass.. Use the higher application rates for the control of heavy infestations of annual grasses like *Digitaria spp* and *Panicum spp*.

CLAY %	ALANEX CS l / ha
0 – 10	3,2 l
11 – 20	3,2 – 3,6 l
21 – 30	3,6 – 4,0 l
> 35	4,0 l

G. SUGAR CANE

Apply **ALANEX SC** pre-emergence of weeds at 4,0 l – 5,0 l / ha. If it is expected that *Panicum maximum* (from seed only) or *Cyperus esculentus* will be a problem, the higher rate should be used.

For improved control of broadleaf weeds **ALANEX SC** can be used pre-emergence in a tank mix with **ATRANEX 500 SC** or **MCPA** in 'n plant of ratoon cane.

CLAY %	PRODUCT	DOSAGE (l / ha)
0 – 35	MCPA	4,0 l
0 – 35	Atranex	2,0 l
> 35		3,0 l

SOIL CLAY %	DOSAGE ℓ / HA		REMARKS
	RACER 200 CS	ALANEX 480 CS	
5 – 20 % > 20 % Please refer to note below	1,0 ℓ 1,3 ℓ	1,6 ℓ 2,4 ℓ	<p>1. Strictly adhere to all label recommendations that appear on the ALANEX 384 EC or ALANEX 480 CS labels</p> <p>2. Apply the combination of RACER 200 CS plus the ALANEX formulations after planting as is described under REMARKS above</p> <p>3. If ALANEX 384 EC is used it should be added to be half filled spray tank first before the RACER 200 CS is added.</p> <p>4. The control of spiny Emex (<i>Emex australis</i>) and <i>Polygonum spp</i> may not be acceptable with this combination.</p>

IMPORTANT: Do not use on soils which are subject to wind erosion.

ALANEX CS can be used as an early post-emergence application on weeds on plant and ratoon cane in tank mixes with the following products.

1. Apply 4,0 – 5,0 l **ALANEX CS** in a tank mix with 6,0 l AMETREX 500 SC per ha. A non-ionic wetter should be added at 0,2 % of the spray volume. This mixture can be applied over the cane up till the 5 leaf stage, thereafter the spray must be directed between the rows.
2. Apply 4,0 l – 5,0 l **ALANEX CS** in a tank mix with 3,0 l – 5,0 l AMETREX plus 1,5 l PARAQUAT per ha. This treatment can be applied up to the 3 leaf stage of the cane.
3. Apply 4,0 l – 5,0 l **ALANEX CS** in a tank mix with Diurex at 2,5 l – 3,0 l and 1,5 l PARAQUAT per ha. This treatment may be applied up to the 3 leaf stage of the cane.
4. Apply 4,0 l – 5,0 l **ALANEX CS** in a tank mix with 2,0 l – 3,0 l ATRANEX 500 SC and 1,0 l – 2,0 l PARAQUAT per ha. This treatment can be applied up to the 3 leaf stage of the cane.

H. SUNFLOWER

Apply **ALANEX CS** at planting or immediately thereafter but not later than two days after planting. Will control mainly annual grasses, some broad leaf weeds and suppress *Cyperus esculentus* under certain conditions. Apply 3,2 l **ALANEX CS** on soils with a clay content of 0 - 16 % clay and 4,0 l / ha on soils with a clay content > 16 % **ALANEX 480 CS** should not be used on soils with a clay content of 0 – 10 % on the Northwest and Northern Free State provinces which are subjected to wind erosion. For improved control of broad leaf weeds **ALANEX 480 CS** can be used in a tank mix with **RACER 200 CS** according to the recommendations of the instructions here under. Refer to the **RACER 200 CS** label for special conditions.

I. **TRANSPLANTED CABBAGE, BROCCOLI (Late Corona and Premium Crop) and BRUSSELSE SPROUTS (Jade Cross)**

Apply **ALANEX CS** after transplanting of crop but before emergence of weeds. Use 3,2 l / ha on soils with a clay percentage of 0 – 16 % en 4, 0 l / ha on soils with a clay percentage > 16 %.

WAARSKUWING:

- Giftig indien ingesluk word.
- Kan gevaarlik vir visse wees.
- Bêre in 'n koel droë plek, weg van voedsel, voer, saad, kunsmis en ander landboumiddels.
- Hou buite bereik van kinders, diere en oningeligte persone.

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 en die voorkoms van weerstand van die onkruid 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 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:

- Moenie spuitmis of spuitnewel inasem nie.
- Dra rubberhandskoene gedurende produkhantering.
- Indien die middel met die vel of oë in aanraking kom, was met baie water. Indien die mengsel in die oë beland, spoel uit met groot hoeveelhede water en indien dit nodig is, kry mediese behandeling vir die oë.
- Moenie tydens gebruik of daarna eet, drink of rook nie of voordat nie eers gewas en besoedelde klere uitgetrek is nie.
- Voorkom besoedeling van voer, voedsel, drinkwater en eetgerei.
- Voorkom wegdrywing en / of kontaminasie na ander gevoelige of eetbare gewasse, weiding, riviere, damme en enige ander gebiede wat nie behandel word nie.

BELANGRIK: DRIEDUBBELE UITSPOELING VAN HOUER

Keer die leë houer om oor die spuit- of mengtenk en dreineer vir minstens 30 sekondes nadat die vloeï tot 'n gedrup verminder het. Spoel die houer daarna drie keer uit met 'n volume water gelykstaande aan 'n minimum van 10 % van die houer. Gooi die spoelwater by die inhoud van die spuittenk voordat die houer vernietig word. Vernietig die leë houer en moet dit vir geen ander doel gebruik nie.

WEERSTANDSWAARSKUWING :

Vir die bestuur van weerstand word ALANEX 480 CS as 'n groepkode K 3 onkruidodder geklassifiseer. Enige onkruidpopulasie mag individue hê wat natuurlike weerstand teen ALANEX 480 CS en groepkode K 3 onkruidodders besit. Die weerstandbiedende individue kan uiteindelik die populasie domineer as hierdie onkruidodders herhaaldelik gebruik word. Hierdie weerstandbiedende onkruid mag dalk nie deur ALANEX 480 CS of ander groepkode K 3 onkruidodders beheer word nie. Om onkruidweerstand te vertraag, kan die volgende gedoen word:

- Vermyn die herhaaldelike eksklusiewe gebruik van onkruidodders van dieselfde onkruidoddergroepkode. Wissel af of gebruik tenkmengsels met produkte van ander onkruidoddergroepkodes.
- Integreer beheermetodes (chemiese, verbouing en biologies) in onkruidbeheerprogramme

Skakel met die verspreidersagent of die registrasiehouer vir meer spesifieke inligting.

GEBRUIKSAANWYSINGS: GEBRUIK ALLEENLIK SOOS AANGEDUI

ALGEMENE INLIGTING

Verseker dat u toerusting akkuraat gekalibreer is. 'n Diep ploegbewerking net voor plant is noodsaaklik vir:

- a. Verbeterde beheer van *Cyperus esculentus* (geeluintjies). Sien WISSELVALLIGE ONKRUIDBEHEER aan die einde van die etiket.
- b. Opbreking van gekompakteerde grondlae wat kan lei tot versuiptoestande na swaar reën en die uiteindelijke moontlike beskadiging van gewasse.

'n Fyn, ferm- gelyk saadbed sonder enige bestaande onkruid of oormatige plantreste moet voorberei word.

ALANEX CS moet nie op ingeteelde ouerplante van mielibasters of op eksperimentele of nuut vrygestelde mielie of suikermieliebasters gebruik word voordat die chemiese verskaffer of saadhandelaar geraadpleeg is nie.

Moet nie op swak gedreineerde gronde toedien nie. Oormatige hoeveelheid water kan tot versuiptoestande lei wat weer in die teenwoordigheid van hierdie onkruidodder standverliese en / of verdwering van plante tot gevolg kan hê.

ALANEX CS moet nie op waaisandgronde gebruik word nie met 'n klei inhoud van 0 – 10 % veral in Noordwes en Noord Vrystaat provinsies nie.

Voor **ALANEX CS** in kombinasie met enige ander onkruidodder gebruik word, moet die etikette van daardie middels bestudeer word en streng by die aanbevelings gehou word.

Vloedbesproeiing mag die doeltreffendheid van onkruidbeheer verminder.

VERMENGINGSVOORSKRIFTE

Skud houer deeglik voor gebruik en maak deeglik toe na gebruik

Maak die spuittenk halfvol met skoon water en voeg die benodigde volume **ALANEX CS** in die tenk by terwyl dit geroer word. Vul die spuittenk met water terwyl nog steeds geroer word.

Indien **ALANEX CS** in kombinasie met ander onkruidodders gebruik word, moet die volgende vermengingsprosedure gevolg word:

- a. Vul die spuittenk driekwartvol met skoon water. Voeg die benodigde hoeveelheid van die ander middel by terwyl die mengsel geroer word.
- b. Voeg skoon water by die tenk totdat dit ampter vol is. Voeg dan die benodigde volume **ALANEX CS** by terwyl aanhoudend geroer word. Vul die tenk tot die regte volume met skoon water.
- c. Deeglike roering van die spuitmengsel is noodsaaklik tydens vermenging en bespuiting.

- d. Spuitmengsel moet dadelik uitgespuit word na vermenging en nie toegelaat word om oornag te staan nie.
- e. Die hele spuitsisteam moet na toediening deeglik met skoon water uitgespoel word.

TOEDIENING

Vooropkom toedienings van **ALANEX CS** of tenkmengsels met **ALANEX CS** moet verkieslik tydens die plantproses of direk daarna toegedien word. Indien dit nie moontlik is nie moet toediening nie later as twee dae na plant en so na as moontlik aan die laaste grondbewerking geskied.

Gebruik 150 – 300 l spuitmengsel per ha vir grondtoediening en 30 – 40 l spuitmengsel per ha vir lugtoediening.

Aanhoudende reën of oorhoofse besproeiing van ten minste 10 – 15 mm binne 5 dae na toediening is noodsaaklik vir doeltreffende onkruidbeheer.

As dit nie reën nie en onkruide begin ontkiem moet 'n vlak bewerking gedoen word om die onkruide te vernietig en om die onkruidodder in die boonste 10 – 20 mm grondlaag te vermeng.

Indien 'n grondkors gevorm het, kan dit gebreek word, sodat die gewas normaal kan ontkiem, deur 'n vlak bewerking in dieselfde rigting as die plantrye uit te voer.

Onkruidbeheer kan nadelig beïnvloed word indien onbehandelde grond na die oppervlak gebring word tydens die grondbewerking

LUGTOEDIENING:

ALANEX 480 CS kan slegs deur 'n geregistreerde Lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS Kode 10118 (Aerial Application of Agricultural Pesticides) uit die lug bespuit word. Verseker dat die spuitmengsel eweredig oor die teikenarea versprei word, en die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is daarom belangrik om aan die volgende vereistes te voldoen:

- **Volume:** 'n Minimum spuitmengsel volume van 30 liter per ha word aanbeveel. Hierdie produk is nie teen 'n verlaagde volume getoets nie. Die registrasiehouer kan nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effekte indien hierdie produk teen 'n laer volume, as hierbo aanbeveel, toegedien word nie.
- **Druppel bedekking:** 30 tot 40 druppels per cm² moet op die teikenarea herwin word.
- **Druppelgrootte:** 'n Druppelspektrum met 'n VMD van 350 – 450 mikron word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikrons (hoëdrywing en verdampingspotensiaal) tot 'n minimum.
- **Vlieghoogte:** Handhaaf die hoogte van die spuitbalk bo die teiken op 3 tot 4 meter. Moet nie spuit wanneer die vliegtuig duik nie, uitklim of draai nie.
- Gebruik geskikte atomiseringsapparaat wat die vereiste druppelgrootte en bedekking sal produseer, maar die minste verlies van produk verseker. Die spuitstelsel moet 'n druppelspektrum met die kleinste moontlike Relatiewe Span produseer.
- Plaas al die atomiseerders in die binnste 60 tot 75% van die vlerkspan om te verhoed dat druppels binne-in die vlerkpuntvorteks beweeg.
- Die verskil in temperatuur tussen die nat- en droëboltermometer van 'n swaaihygrometer, moet nie 8°C oorskry nie.
- Stop bespuiting indien die windspoed 15km/uur oorskry.
- Stop bespuiting tydens turbulente, onstabiele en droë toestande gedurende die hitte van die dag.

- Bespuiting onder temperatuur inversie toestands (deur bo of binne die inversie laag te spuit) en/of hoë lugvog toestande (relatiewe humiditeit 80% en meer) mag tot volgende probleme aanleiding gee:
 - verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken)
 - skade aan nie-teiken gewasse of sensitiewe areas as gevolg van wegdrywing van die spuitwolk na nie-teiken area.
- Verseker dat die Lugbespuitingsoperateur presies weet watter lande bespuit moet word.
- Dit is noodsaaklik om 'n versekering van die Lugbespuitingsoperateur te verkry dat aan al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat is vir toekomstige verwysing.

TOEDIENINGSHOEVEELHEDE

A. MIELIES

Vooropkom toediening moet gedoen word tydens plant of net na plant maar nie later as twee dae na plant nie. Vir baanbespuiting moet die toedieningshoeveelheid dan ooreenkomstig aangepas word.

- Vooropkom beheer van eenjarige grasse en sekere breëblare.

% KLEI	DOSIS ALANEX CS (l / ha)	OPMERKINGS
0 - 15	3,2	ALANEX CS word nie op gronde met 'n klei-inhoud van 0 – 10 % in die Noordwes en Noord Vrystaat Provinsies aanbeveel wat tot winderosie geneig is nie.
16 - 20	3,6	
> 21	4,0	

- Vooropkom beheer van eenjarige grasse en breëblare in 'n tenkmengsel saam met Atranex 500 SC.

KLEI %	DOSIS ALANEX CS (l / ha)	DOSIS ATRANEX 500 SC (l / ha)	OPMERKINGS
0 – 10	3,2	1,75 – 2,25	Sien Onkruidspektrum hieronder vir onkruide wat beheer word. In 'n wisselboustelsel waar kort wagperiodes verlang word, kan 1,5 l ATRANEX per ha toegedien word op gronde met 'n klei inhoud van tot 35% en 2,0 l ATRANEX per ha op gronde met 'n klei inhoud van meer as 35 % klei. Raadpleeg die ATRANEX etiket vir aanbevelings en gebruiksbepelings. Moet nie ALANEX 480 CS toedien op gronde van 0 – 10 % klei in die Noordwes en Noord Vrystaat Provinsies wat tot winderosie geneig is nie.
11 – 16	3,2	2,5	
17 – 20	3,6	2,75	
21 – 35	4,0	2,75 – 3,25	
> 35	4,0	4,0	

3. Vooropkom beheer van eenjarige grasse en breëblaar onkruid in 'n tenkmengsel met SUPRANEX 600 SC.

KLEI %	DOSIS ALANEX CS (l / ha)	DOSIS SUPRANEX 600 SC (l / ha)	OPMERKINGS
0 – 10	3,2	2,0	Sien Onkruidspektrum hieronder vir onkruid wat beheer word. Raadpleeg die SUPRANEX etiket vir aanbevelings en gebruiksbepelings. Moet nie ALANEX 480 CS toedien op gronde van 0 – 10 % klei in die Noordwes en Noord Vrystaat provinsies wat tot winderosie geneig is nie.
11 – 15	3,2	2,7	
16 – 20	3,6	2,7	
21 – 35	4,0	3,3	
> 35	4,0	4,0	

4. **ALANEX CS** vooropkom toegedien vir die beheer van eenjarige grasse gevolg deur 'n na-opkom toediening van ATRANEX 500 SC of SUPRANEX 600 SC vir langer beheer van breëblare. ATRANEX 500 SC of SUPRANEX 600 SC kan na 'n skoffelbewerking toegedien word. Dit kan ook as 'n vroeë na-opkom toediening op breëblare in 'n tenkmengsel met 2,4-D amien 480 toegedien word.

KLEI %	DOSIS ALANEX CS l / ha	DOSIS ATRANEX 500 SC l / ha	DOSIS SUPRANEX 600 SC l / ha	TENKMENGSEL ATRANEX OF SUPRANEX MET 2,4-D l / ha
0 – 10	3,2	2,5	2,0	ATRANEX 2,0 l + 2,4-D amien 480 0,5 – 0,75 l / ha SUPRANEX 1,7 l + 2,4-D amien 480 0,5 – 0,75 l / ha Moet nie ALANEX 480 CS toedien op gronde van 0 – 10 % klei in die Noordwes en Noord Vrystaat provinsies wat tot winderosie geneig is nie.
11 – 15	3,2	3,25	2,7	
16 – 20	3,6	3,25	2,7	
21 – 35	4,0	4,0	3,3	
> 35	4,0	4,75 – 5,0	4,0	

B. SUIKERMIELIES

ALANEX CS moet net na plant maar vooropkom van suikermielies en onkruid toegedien word. Suikermielievariëteite se gevoeligheidsgraad ten opsigte van **ALANEX CS** wissel baie en daarom moet die verskaffer van **ALANEX CS** of die saadverskaffer eers geraadpleeg word voor toediening plaasvind.

KLEI %	ALANEX CS l / ha
0 – 10	Nie aanbeveel nie
11 – 15	3,2
16 – 20	3,6
21 – 35	4,0
> 35	Nie aanbeveel nie.

C. GRONDBOONTJIES

Dien vooropkom van gewas en onkruid tydens plant of direk daara (binne twee dae) toe. Hoofsaaklik eenjarige grasse en sommige breëblaaronkruid sal beheer word.

Dosis 3,2 l – 4,0 l / ha

Gebruik die laer dosis op ligte gronde.

D. PYNAPPELS

Dien vooropkom van onkruid toe.

Dosis 3,2 l / ha op grond 0 – 16 % klei en 4,0 l / ha op grond > 16 % klei.

Beheer van eenjarige grasse en sommige breëblare kan verwag word.

E. AARTAPPELS

Dien vooropkom van gewas en onkruid toe.

Dosis 3,2 l / ha op grond met 'n klei inhoud 0 – 16 % en 4,0 l / ha op grond met klei inhoud > 16 %.

Alhoewel **ALANEX CS** 'n vooropkom onkruiddoder is, kan dit vroeg na-opkom van aartappels en onkruid in kombinasie met 'n middel wat **PARAQUAT** bevat gebruik word.

Dosis van **PARAQUAT** is 1,0 – 2,0 l / ha. **ALANEX CS** / **PARAQUAT** tenkmengsel kan net tot op 10 % halmverskyning van aartappels gebruik word.

F. SOJABONE

Dien as 'n vooropkom bespuiting van die gewas sowel as die onkruid toe. Eenjarige grasse en sommige breëblare kan beheer word. Gebruik die hoer toedieningshoeveelheid vir die beheer van hoë infestasiedruk van grasse soos *Digitaria spp* en *Panicum spp*.

KLEI %	ALANEX CS l / ha
0 – 10	3,2 l
11 – 20	3,2 – 3,6 l
21 – 30	3,6 – 4,0 l
> 35	4,0 l

G. SUIKERRIET

Dien **ALANEX SC** voorkom van onkruid toe teen 4,0 l – 5,0 l / ha. As verwag word dat *Panicum maximum* (wat van saad ontkiem) of *Cyperus esculentus* 'n probleem kan wees, moet die hoer dosis gebruik word. Vir verbeterde voorkom beheer van breëblaaronkruid kan **ALANEX CS** saam met **ATRANEX 500 SC** of **MCPA** in 'n tenkmengsel gebruik word op planriet en oorstaanriet.

KLEI %	PRODUK	DOSIS (l / ha)
0 – 35	MCPA	4,0 l
0 – 35	Atranex	2,0 l
> 35		3,0 l

ALANEX CS kan in kombinasie met die volgende produkte as 'n vroeë na-opkom behandeling op plantriet en oorstaanriet gebruik word.

1. Dien **ALANEX CS** teen 4,0 – 5,0 l per ha in 'n tenkmengsel met 6,0 l **AMETREX 500 SC** per ha toe. 'n Nie-ioniese benatter moet teen 0,2 % van die spuitvolume bygevoeg word. Hierdie mengsel kan tot en met die 5 blaar stadium van die suikerriet bo-oor die riet gespuit word. Daarna moet 'n tussenry gerigte bespuiting gedoen word.
2. Dien **ALANEX CS** teen 4,0 l – 5,0 l per ha in 'n tenkmengsel met 3,0 l – 5,0 l **AMETREX** plus 1,5 l **PARAQUAT** per ha toe. Hierdie bespuiting kan tot en met die 3 blaar stadium van die suikerriet toegedien word.
3. Dien **ALANEX CS** teen 4,0 l – 5,0 l per ha in 'n tenkmengsel met 2,5 l – 3,0 l **DIUREX 800 SC** plus 1,5 l **PARAQUAT** per ha toe. Hierdie bespuiting kan tot en met die 3 blaar stadium van die suikerriet toegedien word.
4. Dien **ALANEX CS** teen 4,0 l – 5,0 l per ha in 'n tenkmengsel met 2,0 l – 3,0 l **ATRANEX 500 SC** plus 1,0 l - 2,0 l **PARAQUAT** per ha toe. Hierdie behandeling kan tot en met die 3 blaar stadium van die suikerriet toegedien word.

H. SONNEBLUM

ALANEX CS moet verkieslik tydens plant of net na plant maar nie later as twee dae na plant toegedien word. Beheer van eenjarige grasse, sommige breëblare en onderdrukking van geeluintjies onder sekere omstandighede kan verwag word. Op gronde met klei inhoud van 0 – 16 % klei word 3,2 l / ha toegedien en op gronde > 16 % klei word, 4,0 l / ha toegedien.

Vir verbeterde breëblaarbeheer kan **ALANEX 480 CS** in 'n tenkmengsel met **RACER 200 CS** gebruik word volgens voorskrifte in onderstaande tabel. Let asseblief op na die vereistes soos wat op die **RACER 200 CS** etiket verskyn

GROND KLEI %	DOSIS ℓ / HA		OPMERKINGS
	RACER 200 CS	ALANEX 480 CS	
5 – 20 % > 20 %	1,0 ℓ 1,3 ℓ	1,6 ℓ 2,4 ℓ	1. Hou streng by die aanbevelings wat op die ALANEX 384 EC en ALANEX 480 CS etikette verskyn. 2. Dien toe kombinasie van RACER 200 CS plus ALANEX formulاسie na plant toe soos hier bo onder OPMERKINGS beskryf word. 3. Indien ALANEX 384 EC gebruik moet dit eerste in die halfgevolle spuittenk gevoeg word
Sien asseblief waarskuwing hier onder			

			<p>voor die RACER 200 CS bygevoeg word.</p> <p>4. Die beheer van Kaapse dubbeltjie (<i>Emex australis</i>) en <i>Polygonus</i> spp mag nie na wense wees nie met hierdie kombinasie nie.</p>
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BELANGRIK: Moet nie op grond gebruik wat geneig is tot winderosie (waaisand)

16 % klei word 3,2 ℓ / ha toegedien en op gronde > 16 % klei word 4,0 ℓ / ha toegedien. ALANEX 480 CS moet egter nie op gronde met 'n klei inhoud van 0 – 10 % in die Noordwes en Noord Vrystaat provinsies wat tot winderosie geneig is, gebruik word nie.

I. UITGEPLANTE KOPKOOL, BROCCOLI (Late Corona en Premium Crop) en BRUSSELSE SPRUITE (Jade Cross)

ONKRUID WAT DEUR ALANEXCS BEHEER WORD / WEEDS CONTROLLED BY ALANEX CS

GRASSE / GRASSES

<i>Brachiaria eruciformis</i>	Litjiesinjalgras	Sweet signal grass
<i>Chloris virgata</i>	Witpluimchloris	Feathertop Chloris
<i>Digitaria sanguinalis</i>	Kruisvingergras	Crab finger grass
<i>Echinochloa crusgalli</i>	Hannepootmanna	Barnyard grass
<i>Eleusine indica</i>	Jongosgras	Goose grass
<i>Panicum maximum</i>	Gewone buffelgras	Guinea grass
<i>Panicum schinzii</i>	Vlei Buffelgras	Vlei panicum
<i>Setaria verticillata</i>	Klitssetaria	Burbristle grass
<i>Setaria pallide-fusca</i>	Tuinsetaria	Gordes Bristle
<i>Tragus racemosus</i>	Losaarwortelsaadgras	Stulked Bristle grass
<i>Urochloa panicoides</i>	Tuinurochloa	Garden urochloa

BREËBLAARONKRUIDE / BROADLEAF WEEDS

<i>Amaranthus hybridus</i>	Kaapse misbredie	Cape pigweed
<i>Amaranthus spinosus</i>	Doringmisbredie	Thorn pigweed
<i>Amaranthus thunbergii</i>	Rooimisbredie	Red pigweed
<i>Galinsoga parviflora</i>	Knopkruid	Small flowered quick weed
<i>Portulaca oleracea</i>	Gewone porslein	Common purslane
<i>Sonchus oleracea</i>	Gewone Sydissel	Common Sowthistle

BROADLEAFWEEDS CONTROLLED BY A TANK MIX OF ALANEX CS AND ATRANEX 500 SC

BREëBLAARONKRUIDE WAT BEHEER WORD DEUR 'N TENKMENGSEL VAN ALANEX CS EN ATRANEX 500 SC

Eightseeded prostrate starbur	<i>Acanthospermum australe</i>	Agtsadigde kruipsterklits
Fiveseeded prostrate starbur	<i>Acanthospermum glabratum</i>	Vyfsadige kruipsterklits
Upright starbur	<i>Acanthospermum hispidum</i>	Regopsterklits
Common Pigweed	<i>Amaranthus hybridus*</i>	Gewone misbredie
Thorny Pigweed	<i>Amaranthus spinosus *</i>	Doringmisbredie
Red Pigweed	<i>Amaranthus thunbergii *</i>	Rooimisbredie
Spanish Blackjack	<i>Bidens bipinata</i>	Spaanse Knapsekerel
Cosmos	<i>Bidens formosa</i>	Kosmos
Blackjack	<i>Bidens pilosa</i>	Knapsekêrel
White goosefoot	<i>Chenopodium album *</i>	Wit hondebossie
Green goosefoot	<i>Chenopodium carrinatum</i>	Groen hondebossie
Spindlepod	<i>Cleome monophylla</i>	Rusperbossie
Pretty lady	<i>Cleome rubella</i>	Mooinooientjie
Benghal wandering jew	<i>Commelina benghalensis</i>	Bengaalse wandelende Jood
Mealie crotolaria	<i>Crotolaria sphaerocarpa</i>	Mielie crotolaria
Large Thorn apple	<i>Datura ferox *</i>	Groot stinkblaar
Thorn apple	<i>Datura stramonium *</i>	Stinkblaar
Gallant soldier	<i>Galingsoga parviflora</i>	Knopkruid
Gisekia	<i>Gisekia pharnacioides</i>	Gisekia
Bladder weed	<i>Hibiscus trionum *</i>	Terblansbossie
Kenaf	<i>Hibiscus cannabius</i>	Wildestokroos
Apple of Peru	<i>Nicandra physaloides</i>	Basterappeliefie
Wild gooseberry	<i>Physalis angulata *</i>	Wilde appeliefie
Purslane	<i>Portulaca oleracea *</i>	Porslein
Tropical richardia	<i>Richardia brasiliensis</i>	Tropiese richardia
Dwarf marigold	<i>Schkhuria piñnata *</i>	Kleinkakiebos
Khakiweed	<i>Tagetes minuta *</i>	Kakiebos
Wild cow pea	<i>Vigna verticillata</i>	Wilde akkerboontjie

WISSELVALLIGE ONKRUIDBEHEER / VARIABLE WEED CONTROL

<i>Anthemis cotula</i>	Stinkkamille Kosmos	Stink mayweed Cosmos
<i>Chenopodium album</i>	Withondebossie	White goosefoot
<i>Chenopodium carinatum</i>	Groenhondebossie	Green goosefoot
<i>Cleome monophylla</i>	Enkelbraarcleome	Single leaf cleome
<i>Commelina benghalensis</i>	Bengaalse Commelina	Bengal commelina
<i>Cyperus esculentus</i>	Geeluintjie	Yellow nutsedge
<i>Datura ferox</i>	Groot stinkblaar(vroegontkiemend)	Large Thornapple (early germinating)
<i>Datura stamonium</i>	Gewone stinkblaar (vroegontkiemend)	Common thornapple (early germinating)
<i>Stellaria media</i>	Gewone sterremuur	Chickweed starwort
<i>Targetes minuta (**)</i>	Langkakebos (vroegontkiemend)	Tall khakiweed (early germinating)

ALANEX CS control mainly annual grasses. Unlisted grasses may be controlled to a greater or lesser degree. The control of *Cyperus esculentus* will be dependent on a deep plough operation before plant and the timing and amount of rain or irrigation after application. The addition of Atranex 500 SC at the higher recommended rates to Alanex CS will control or improve the control of the following weeds.

ALANEX SC beheer hoofsaaklik eenjarige grasse. Grasse wat nie gelys is nie mag in 'n mindere of meerdere mate beheer word. Die beheer van *Cyperus esculentus* sal grootliks daarvan afhang of 'n diep ploegbewerking voor plant uitgevoer is en die dae verloop tussen toediening en wanneer die eerste reën val of besproeiing plaasvind asook die hoeveelheid reën of besproeiing. Die byvoeging van Atranex 500 SC teen die hoogste aanbevole dosis by Alanex CS sal die beheer van die volgende onkruid tot gevolg hê of verbeter.

REMARKS

Weeds marked with an * will be controlled by a tank mix of Alanex CS and the lower rate of Atranex. Excessive wet or very dry conditions may reduce the control of weeds.

Late germinating *Datura* or *Tagetes* might not be controlled with an Alanex / Atranex tank mixture.

If a tank mix of Alanex CS and Atranex 500 SC or Supranex 600 SC is used in a crop rotation programme, the use restrictions on the Atranex 500 SC and Supranex 600 SC should be strictly adhered to.

OPMERKINGS

Onkruid met 'n * gemerk sal deur die tenkmengsel van Alanex CS en die laer dosis Atranex beheer word. Buitengewoon nat- of droë toestande mag die beheer van onkruid negatief beïnvloed.

Laat ontkiemende *Datura* of *Tagetes* mag dalk nie deur 'n tenkmengsel van Alanex CS en Atranex 500 SC beheer word nie.

As 'n tenkmengsel van Alanex CS en Atranex 500 SC of Supranex 600 SC in 'n wisselbou program gebruik word, moet die gebruiksbepelings soos wat op die Atranex 500 SC en die Supranex 600 SC etikette voorkom, streng nagevolg word.