



ALANEX[®] 384 EC

Reg. no. L4725 Act/Wet 36 of/van 1947
N-AR 0485

A pre-emergence emulsifiable concentrate weed killer for the control of most annual grasses and certain broadleaf weeds in maize, sweetcorn, groundnuts, soybeans, drybeans, sunflower, transplanted cabbage, broccoli, brussels sprouts, potatoes, sugarcane, pineapples and sorghum (grain and forage).

'n Vooropkom-, emulgeerbare konsentraat onkruidodder vir die beheer van die meeste eenjarige grasse en sekere breëblaaronkruid in mielies, suikermielies, grondbone, sojabone, droëbone, sonneblomme, aartappels, pyn-appels, uitgeplante kopkool, brokkoli, spruitkool, suikerriet en sorghum (graan en voer).

HRAC HERBICIDE GROUP CODE

K3

HRAC ONKRUIDODDERGROEPKODE

ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

Alachlor (chloro-acetanilide) 384 g/l Alachlor (chloorasetanilied)

NET VOLUME/NETTO VOLUME

..... l

REGISTRATION HOLDER/REGISTRASIEHOUER

ADAMA South Africa (Pty.) Ltd.

Reg. no. 1992/001741/07

21 Viben Street

7560 Brackenfell

T: +27 21 982 1460 F: +27 21 982 5810

infocpt@adama.com

ALANEX[®] is the registered trademark of a company of the ADAMA GROUP.

ALANEX[®] is die geregistreerde handelsmerk van 'n maatskappy van die ADAMA GROEP.

CONTACT IN EMERGENCY/KONTAK IN NOOD

Griffon Poison Information Centre: +27 82 446 8946

Tygerberg Poison Information Centre: +27 861 555 777

Batch number

Date of Manufacture

Lotnommer

Datum van Vervaardiging

UN no.: 1993



**HARMFUL
SKADELIK**



WARNINGS

- Poisonous if swallowed.
- Can be toxic to fish.
- Store in a cool, dry place.
- Store away from food, feed, seed, fertilizers and other agricultural chemicals.
- **FLAMMABLE:** Keep away from open flames.
- Keep out of reach of children, animals and uninformed persons.
- Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing
- Aerial application: Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

Although this remedy has been extensively tested under a large variety of conditions the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal climatic and storage conditions; quality of dilution water; compatibility with other substances not indicated on the label and the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damages to crops, vegetation, and the environment or harm to humans or animals 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 breathe fume of 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 and change of clothing.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Prevent drift and/or contamination onto susceptible or 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 rinsings to the contents of the spray tank before destroying the container. Do not re-use empty container for any other purpose.

DIRECTIONS FOR USE

Use only as directed.

GENERAL INFORMATION

- Ensure accurately calibrated equipment
- **A deep plough, just prior to planting is essential for:**
 - a) Improved control of *Cyperus esculentus* (yellow nutsedge). See paragraph on VARIABLE WEED CONTROL at the end of this label.
 - b) Breaking of compaction layers which could lead to waterlogged soil and subsequent possible damage to maize following heavy rain.
- Prepare a fine even seedbed free of weeds, trash and clods.
- Do not apply **ALANEX® 384 EC** 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® 384 EC** to sandy soils that is subjected to wind erosion.
- Before using **ALANEX® 384 EC** in combination with other herbicides, read the labels and adhere to label recommendations.
- Flood irrigation can reduce weed control efficacy.

MIXING INSTRUCTIONS

- Shake container well before use.
- Close container securely after use.
- To a spray tank half filled with clean water, add the required amount of **ALANEX® 384 EC** while maintaining agitation.
- Complete filling operation.

When mixing ALANEX® 384 EC with other registered herbicides, use the following procedure:

- Fill spray tank three quarters with clean water.
- Add required amount of complementary herbicide to the water while agitating continuously.
- Add **ALANEX® 384 EC** just before the tank is filled to its full level.
- Ensure thorough agitation of the mixture in the tank during mixing and spraying.
- Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank overnight.
- Thoroughly flush out spraying equipment at the end of the spraying operation.

APPLICATION

General

- Apply **ALANEX® 384 EC** with planting or immediately after planting, but not later than two days after planting. Use 200 L/ha total mix for overall ground application and 30–40 L/ha for aerial application.
- Between 10–15 mm rain within 7 to 10 days after application is necessary to leach the herbicide into the soil to ensure good efficacy.

- Under dry conditions, weed seedlings may emerge. These are usually stunted and can be controlled with a shallow cultivation, which also mixes the herbicide with the top 10 to 20 mm of soil.
- If soil crusting becomes a problem, rotary harrow in the same direction the rows are planted, to assist maize germination. Harrowing after application may reduce weed control if untreated soil is thrown into deep planter furrows.
- Ensure that sufficient fertilizer is placed near the seed at planting to promote vigorous seedling growth.
- Ensure equipment is accurately calibrated and regularly checked before and during application.

Aerial application

ALANEX® 384 EC must not be applied from the air to maize.

Aerial application of **ALANEX® 384 EC** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SABS 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 30-40 L/ha 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 aerially at a lower volume rate than recommended above.
- Droplet coverage: 25-35 droplets/cm² must be recovered at the target area.
- Droplet size: A droplet spectrum with a VMD of 350-400 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 3-4 metres above the target. Do not spray when 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 60-75 % 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 15 km/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 to crop and weeds

Applications must be made at planting or not later than two days after planting. Use the correct rates for different tow and band widths.

To increase the spectrum of broadleaf weeds controlled in maize only tank mixtures with **ATRAZINE®500 SC** are recommended.

CLAY %	ALANEX®384 EC (L/ha)	ATRAZINE®500 SC (L/ha)	REMARKS
0–10	4.0*	1.75–2.25	When a short soil persistence is required in view of follow-up crops, use only 1.5 L/ha ATRAZINE® 500 SC on soils up to 35 % clay and 2.0 L/ha ATRAZINE® 500 SC on soils over 35 % clay. (See “NOTE” below)
11–16	4.0*	2.50	
17–20	4.5	2.75	
21–35	5.0	2.75–3.25	
36 +	5.0	4.0	

NOTE (*): On soils of 0 to 10 % clay in the North West Province and northern Free State use the recommendations below.

For specific annual grass and broadleaf control in maize

For use on soils of 0–20 % clay (including soils of 0–10 % clay in the North West Province and northern Free State) only. Apply the required rate of **ALANEX® 384 EC** after planting and pre-emergence of the crop and weeds either in a tank mix with the required ATRAZINE® 500 SC rate or alone, followed by ATRAZINE® 500 SC applied early post-emergence of the weeds.

WEED	ALANEX® 384 EC (L/ha)	ATRAZINE® 500 SC (L/ha)
<i>Elusine indica</i> Goose grass	2.0*	2.0–3.25 Depending on soil type
<i>Chloris virgate</i> Chloris feathertop		
<i>Digitaria sanguinalis</i>** Crab finger grass	3.0*	Depending on soil type
<i>Urochloa panicoides</i> Herringbone grass		
<i>Panicum schinzii</i> Sweet buffalo grass		

NOTE:

* Nutsedges (*Cyperus esculentus*) will not be controlled at these rates.

In areas of known high *Digitaria sanguinalis* (crab finger grass) infestations, it is recommended to use **ALANEX® 384 EC at 4.0 to 5.0 L/ha in a tank mix with **ATRAZINE® 500 SC** as recommended (excluding soils of 0 to 10 % clay in the North West Province and northern Free State). For use on soils over 20 % clay use **ALANEX® 384 EC** at 5 L/ha as recommended above.

Apply **ALANEX® 384 EC** at 3.0 L/ha in a tank mix with **ATRAZINE® 500 SC** according to the above recommendations up to 4 weeks after planting the maize.

Emerged weeds should be destroyed with a shallow cultivation (less than 3 cm deep) prior to the **ALANEX® 384 EC** and **ATRAZINE® 500 SC** treatment.

Where the crop has emerged, spraying should be directed between the crop rows and not over the crop.

Do not apply the **ALACHLOR 384 EC** treatment in under 200 L water per ha.

NOTE: ATRAZINE® 500 SC mixed with **ALANEX® 384 EC** results in soil persistent residues.

Do not plant atrazine sensitive crops before the time stated on the **ATRAZINE® 500 SC** label.

However, if the rate of **ATRAZINE® 500 SC** was 1.5 L/ha, then the waiting period is only 6 months and if 2.0 L/ha is used the waiting period is 9 months for the following crops:

Grain sorghum, Feed sorghum, Potatoes, Sunflowers, Dry beans, Groundnuts, Soybeans and Cereals.

If **ALANEX® 384 EC** plus **ATRAZINE® 500 SC** tank mixtures are applied onto turf soils (soils which expand when wet and crack and crumble when dry), then the **ATRAZINE® 500 SC** may remain active much longer in the soil than the above-mentioned waiting periods.

Do not use **ALANEX® 384 EC** plus **ATRAZINE® 500 SC** tank mixtures on these soils if it is anticipated that an **ATRAZINE® 500 SC** sensitive crop is to be planted in rotation.

SWEETCORN

ALANEX® 384 EC can be applied as a post plant pre-emergence treatment. Sweetcorn cultivars exhibit a wide variation in tolerance to **ALANEX® 384 EC** and only those cultivars known to be tolerant should be treated. Consult your seed supplier and/or representative before treating sweetcorn with **ALANEX® 384 EC**.

CLAY %	ALANEX® 384 EC (L/ha)
0–10	Not recommended
11–15	4.0
16–20	4.5
21–35	5.0
> 35	Not recommended

SUGARCANE

Pre-emergence in respect of weeds

Apply 5.0 – 6.0 L/ha **ALANEX® 384 EC**: If it is anticipated that *Panicum maximum* (from seed only) is expected to be a major problem then the higher rate should be used.

For the control of a broad spectrum of broadleaf weeds and annual grasses, MCPA or atrazine can be added to the above rates of **ALANEX® 384 EC** as follows:

PRODUCT	DOSAGE
MCPA (potassium salts) (400 g/L)	4.0 L/ha
ATRAZINE® 500 SC	2.0 L/ha- Sandy to sandy clay loam soil (up to 35 % clay)
ATRAZINE® 500 SC	3.0 L/ha- Sandy to sandy clay loam soil (above 35 % clay)

Early post-emergence in respect of weeds

ALANEX® 384 EC combinations for plant and ratoon cane:

ALANEX® 384 EC Rate	IN COMBINATION WITH
6 L	Plus 2.5 kg DIURON + 1.25 L ERASE
6 L	Plus 2 to 3 L ATRAZINE® 500 SC + 1 to 2 L GRAMOXONE (*)
(*) Apply GRAMOXONE before the second leaf has unfurled	
The ALANEX® 384 EC plus DIURON plus ERASE combination provides control of <i>Cyperus esculentus</i> , annual grasses and broadleaf weeds.	

POTATOES

Pre-emergence in respect of weeds

Apply 4.0–5.0 L/ha **ALANEX® 384 EC**: Unless irrigated, apply pre-emergence to potatoes and weeds, after the first summer rains. Use the lower rate on lighter soils (0 to 16 % clay).

Early post-emergence in respect of weeds

ALANEX® 384 EC is a pre-emergence herbicide. However, for an early post-emergence application, after the first summer rains (unless irrigated), add GRAMOXONE at 1.0–2.0 L/ha.

GRAMOXONE/ALANEX® 384 EC MUST NOT BE APPLIED AFTER 10 % POTATO EMERGENCE.

GROUNDNUTS AND SOYABEANS

Pre-emergence of weeds and crop

Apply 4.0–5.0 L/ha **ALANEX® 384 EC** at planting or not later than 2 days after planting. Use the lower dosage on lighter soils (0–16 % clay).

DRYBEANS

Apply pre-emergence of the crop and weeds within 2 days of planting.

CLAY %	ALANEX® 384 EC (L/ha)	REMARKS
0–10	3.0	Most annual grasses as listed will be controlled. Control of <i>Digitaria</i> spp., <i>Panicum</i> spp, and broadleaf weeds will be variable. <i>Cyperus esculentus</i> will not be well controlled at these rates.
11–20	3.5	
>20	4.0	

WARNING: Cold, wet conditions between application and emergence or early growth of dry beans may lead to temporary leaf crinkling, leaf burn and stunting.

SUNFLOWERS

Apply pre-emergence of weeds and crops at 4.0–5.0 L/ha depending on soil type.

Use 4.0 L/ha on lighter soils (0 to 16 % clay).

TRANSPLANTED CABBAGE, BROCCOLI (LATE CORONA AND PREMIUM CROP) AND BRUSSELS SPROUTS (JADE CROSS)

Pre-emergence of weeds after crop transplant

Apply **ALANEX® 384 EC** at 4.0–5.0 L/ha: Apply as soon as possible after the first post-transplanted irrigation and pre-emergence of the weeds.

Use 4.0 L/ha on lighter soils (0–16 % clay).

PINEAPPLES

Apply **ALANEX® 384 EC** at 4.0–5.0 L/ha pre-emergence of weeds. Use 4.0 L/ha on light soils (0–16 % clay).

GRAIN AND FORAGE SORGHUM

ALANEX® 384 EC may be applied as an after-plant, pre-emergent treatment in grain and forage sorghum provided the seed has been treated with a seed SCREEN seed safener according to label instructions.

CLAY %	ALANEX® 384 EC (L/ha)
0–10	Not recommended
11–15	4.0
16–20	4.5
21–50	5.0

WEEDS CONTROLLED BY ALANEX® 384 EC**GRASSES**

Botanical name	Common name
<i>Brachiaria eruciformis</i>	Sweet signal-grass
<i>Chloris virgata</i>	Feathertop Chloris
<i>Digitaria sanguinalis</i>	Crab fingergrass
<i>Echinochloa crusgalli</i>	Barnyard grass
<i>Panicum maximum</i>	Common buffalo grass
<i>Panicum schinzii</i>	Sweet buffalo grass
<i>Setaria pallide-fusca</i>	Red bristle grass
<i>Setaria verticillata</i>	Sticky bristle grass
<i>Tragus racemosus</i>	Large carrotseed grass
<i>Urochloa panicoides</i>	Herringbone grass

BROADLEAF WEEDS

Botanical name	Common name
<i>Amaranthus hybridus</i>	Cape pigweed
<i>Amaranthus spinosus</i>	Thorny pigweed
<i>Amaranthus thunbergii</i>	Red pigweed
<i>Galinsoga parviflora</i>	Gallant soldier
<i>Portulaca oleracea</i>	Purslane
<i>Sonchus oleracea</i>	Common Sowthistle

VARIABLE CONTROL

Botanical name	Common name
<i>Anthemis cotula</i>	Stink mayweed
<i>Bidens formosa</i>	Cosmos
<i>Chenopodium album</i>	White goosefoot
<i>Chenopodium carinatum</i>	Green goosefoot
<i>Cleome monophylla</i>	Spindlepod
<i>Commelina benghalensis</i>	Bengal wandering Jew

<i>Cyperus esculentus</i>*	Yellow nutsedge
<i>Datura ferox</i>**	Large thorn apple (early germinating)
<i>Datura stramonium</i>**	Common thorn apple (early germinating)
<i>Stellaria media</i>	Chickweed (Starwort)
<i>Tagetes minuta</i>**	Tall khaki weed (early germinating)

(*) The control of *Cyperus esculentus* (Yellow nutsedge) is dependent on a deep ploughing immediately before planting and application 1 to 2 days after planting, followed by about 12 mm rain within 7 to 10 days.

(**) Late germinating Thorn apple (*Datura* spp.) and Tall khaki weed (*Tagetes minuta*) as well as Cocklebur (*Xanthium strumarium*), might not be controlled by **ALANEX® 384 EC** plus **ATRAZINE® 500 SC** mixtures.

GRAMOXONE (L 1174) is the registered tradename of Syngenta Crop Protection.

WAARSKUWINGS

- Giftig indien ingesluk.
- Kan giftig vir visse wees.
- Stoor op 'n koel, droë plek.
- Stoor die middel weg van voedsel, voer, saad, kunsmis en ander landboumiddels.
- **VLAMBAAR:** Hou weg van oop vlamme.
- Hou buite bereik van kinders, diere en oningeligte persone.
- Herbetreding: Moet nie die behandelde gebied binne 1 dag na toediening betree nie tensy beskermende klere gedra word.
- Lugtoediening: Stel al die inwoners in die onmiddellike omgewing van die gebied wat bespuit gaan word in kennis en reik die nodige waarskuwings uit. Moet nie oor aangrensende gebiede of water spuit of die spuitnewel toelaat om dit te besoedel nie.

Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie, 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 mense of diere 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 hantering.
- As die middel met die vel of oë in aanraking kom, was met baie water. Indien nodig kry mediese behandeling vir die oë.
- Moenie tydens gebruik of daarna eet, drink of rook nie, voordat nie eers gewas en skoon klere aangetrek is nie.
- Moet nie voer, voedsel, drinkwater en eetgerei besoedel nie.
- Voorkom wegdrywing en/of besoedeling van gevoelige of eetbare gewasse, weiding, riviere, damme en enige ander gebiede wat nie behandel word nie.
- **BELANGRIK: Uitspoel van houer- Driedubbele uispoeling:** Keer die leë houer om oor die spuittenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloei 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. Moenie leë houer vir enige ander doel gebruik nie.

GEBRUIKSAANWYSINGS

Gebruik alleenlik soos aangedui.

ALGEMENE INLIGTING

- Verseker dat alle toerusting akkuraat gekalibreer is.
- 'n **Diep ploeg 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 lae wat kan lei tot versuip toestande en gevolglik moontlike skade aan mielies, na swaar reën.
- Berei 'n fyn gelyk saadbed, vry van onkruid, plantreste en kluite.
- Moet nie **ALANEX® 384 EC** op ingeteelde ouerplante van mieliebasters of op eksperimentele of nuut vrygestelde kultivars gebruik nie, alvorens die vervaardigers of saadverspreiders geraadpleeg is nie.
- Moet nie toedien op swak gedreineerde grond nie. Verspuiptoestande in die teenwoordigheid van onkruiddoers kan lei tot 'n verminderde stand en/of vertraagde groei.
- Moet nie **ALANEX® 384 EC** op sanderige gronde toedien wat vatbaar is vir wind erosie nie.
- Voor **ALANEX® 384 EC** met ander middels gebruik word, lees die etiket van daardie middel en volg die aanwysings.
- Vloedbesproeiing kan tot verminderde onkruidbeheer lei.

MENGINSTRUKSIES

- Skud houer deeglik voor gebruik.
- Maak houer deeglik toe na gebruik.
- Maak die tenk half vol met skoon water. Voeg die regte hoeveelheid **ALANEX® 384 EC** by terwyl dit gedurig geroer word. Maak die spuittenk nou verder vol met water.

Indien ALANEX® 384 EC saam met enige ander geregistreerde onkruiddoders gemeng word, gebruik die volgende prosedure:

- Maak die spuittenk driekwart vol met skoon water.
- Voeg die gekose hoeveelheid komplementerende onkruiddoder by, terwyl gedurig geroer word.
- Voeg **ALANEX® 384 EC** by net voor die spuittenk vol gemaak word tot die finale volume.
- Verseker dat die mengsel gedurende meng en spuit deurgaans geroer word.
- Tenkmengsels moet onmiddellik uitgespuit word en nie toegelaat word om oornag te staan nie.
- Spuittoerusting moet deeglik uitgepoel word na toediening.

TOEDIENING

Algemeen

- Dien **ALANEX® 384 EC** verkieslik met plant of onmiddelik na plant toe, maar nie later as twee dae na aanplanting nie. Gebruik 200 L/ha van spuitmengsel vir algehele grondtoediening en 30–40 L/ha vir lugtoediening.
- Tussen 10 en 15 mm reën binne 7 tot 10 dae na toediening is nodig om die onkruiddoder in die grond te loog en effektiewe beheer te verseker.
- Onder droë toestande mag onkruidsaailinge opkom, maar hul is gewoonlik verpot en kan gesmoor/beheer word met 'n vlak bewerking, wat terselfdertyd die onkruiddoder met die boonste 10 tot 20 mm grond vermeng.

- Indien korsvorming 'n probleem word, moet 'n roleg in dieselfde rigting as die plantrye gebruik word om die kors te breek en ontkiëming te bevorder. Skoffelbewerking na toediening mag onkruidbeheer verminder as onbehandelde grond in plantvore gegooi word.
- Sorg dat voldoende kunsmis met plant naby die saad geplaas word, om kragtige saailinggroei te bevorder.
- Sorg dat toedieningsapparaat korrek gekalibreer is en gereeld nagegaan word voor en gedurende die toediening.

Lugtoediening

ALANEX® 384 EC moet nie uit die lug op mielies toegedien word nie.

ALANEX® 384 EC kan slegs deur 'n geregistreerde Lugbespuitingsperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SABS 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 Spuitmengsel volume van 30-40 L/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: 25-35 druppels per cm² moet op die teikenarea herwin word.
- Druppelgrootte: 'n Druppelspektrum met 'n VMD van 350-400 mikrons word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikrons (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- Vlieghoogte: Handhaaf die hoogte van die spuitbalk bo die teiken op 3-4 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 60-75 % 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 15 km/h oorskry.
- Stop bespuiting tydens turbulente, onstabiele en droë toestande gedurende die hitte van die dag.
- Bespuiting onder temperatuur inversie toestande (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:
 - a) Verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken).
 - b) 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

MIELIES

Voor opkoms van gewas en onkruid

Toediening moet met planttyd geskied, of nie later nie as twee dae na plant. Gebruik die regte hoeveelhede vir verskillende ry- en strookwydtes.

Om die spektrum van breëblaaronkruid in mielies te verbeter, word tenkmengsels met **ATRASIEN® 500 SC** aanbeveel.

KLEI %	ALANEX® 384 EC (L/ha)	ATRASIEN® 500 SC (L/ha)	OPMERKINGS
0–10	4.0*	1.75–2.25	Wanneer 'n kort grondnawerking verlang word ten opsigte van opvolgewasse gebruik slegs 1.5 L/ha ATRASIEN® 500 SC op gronde tot 35 % klei en 2.0 L/ha op gronde bo 35 % klei. (sien "LET WEL" hieronder)
11–16	4.0*	2.50	
17–20	4.5	2.75	
21–35	5.0	2.75–3.25	
36 +	5.0	4.0	

NOTA (*): Op gronde van 0 tot 10 % klei in die Noordwes Provinsie en noordelike Vrystaat, gebruik die aanbevelings onder.

Vir spesifieke/spesiale eenjarige gras- en breëblaaronkruidbeheer in mielies

Slegs vir gebruik op gronde van 0 tot 20 % klei (insluitende grond van 0 tot 10 % klei in die Noordwes Provinsie en noordelike Vrystaat).

Dien **ALANEX® 384 EC** toe teen die aanbevole dosis na plant en voor opkoms van die gewas en onkruid: óf in 'n tenkmengsel met **ATRASIEN® 500 SC** óf alleen gevolg deur **ATRASIEN® 500 SC** toegedien as 'n vroeë na-opkomstoediening op onkruid.

ONKRUID SPESIES	ALANEX® 384 EC (L/ha)	ATRAZINE® 500 SC (L/ha)
<i>Elusine indica</i> Jongosgras	2.0*	2.0–3.25 Afhangende van grondtipe
<i>Chloris virgata</i> Witpluim-Chloris	3.0*	2.5–3.25
<i>Digitaria sanguinalis</i>** Kruisvingergras		Afhangende van grondtipe
<i>Urochloa panicoides</i> Tuin Urochloa		
<i>Panicum schinzii</i> Vlei Buffelgras		

NOTA:

(*) Geeluintjies (*Cyperus esculentus*) sal nie beheer word teen hierdie dosis nie.

(**) In areas bekend vir hoë *Digitaria sanguinalis*- (kruisvingergras-) besmettings, word die gebruik van **ALANEX® 384 EC** teen 4.0 tot 5.0 L/ha in 'n tenkmengsel met die aanbevole dosis **ATRAZINE®**

500 SC aanbeveel (behalwe op grond van 0 tot 10 % klei in die Noordwes Provinsie en noordelike Vrystaat).

Vir die toediening op gronde bo 20 % klei, gebruik **ALANEX® 384 EC** teen 5.0 L/ha soos hierbo aanbeveel.

Dien **ALANEX® 384 EC** teen 3.0 L/ha toe in 'n tenkmengsel met **ATRAZINE® 500 SC** volgens die aanbeveling hierbo, tot 4 weke na plant.

Voor toediening van **ALANEX® 384 EC** plus **ATRAZINE® 500 SC** moet ontkiemde onkruid deur vlak bewerking (minder as 3 cm) vernietig word. In gevalle waar die gewas ontkiem het, moet 'n gerigte bespuiting tussen die gewasrye plaasvind en nie oor die rye nie.

Moet nie die **ALANEX® 384 EC** behandeling in minder as 200 L water per ha toedien nie.

Nota: **ATRAZINE® 500 SC** plus **ALANEX® 384 EC** tenkmengsels het atrasien-grondnawerking tot gevolg.

Moet nie atrasien-gevoelige gewasse plant voor die wagperiode verstreke is soos op die atrasien-etiket aangedui word nie.

Indien 1.5 L/ha **ATRAZINE® 500 SC** gebruik was, dan is die wagperiode 6 maande en vir 2.0 L/ha is die wagperiode 9 maande vir die volgende gewasse:

Graansorghum, voersorghum, sonneblom, grondbone, sojabone, aartappels, droëbone en kleingraan.

As **ATRAZINE® 500 SC** plus **ALANEX® 384 EC** in tenkmengsels toegedien word op turfgronde (wat uitsit wanneer nat of krummel wanneer droog), kan die **ATRAZINE® 500 SC** langer in die grond aktief bly as wat bo aangedui is.

Moet nie **ALANEX® 384 EC** plus **ATRAZINE® 500 SC** tenkmengsels op hierdie gronde gebruik as atrasien-gevoelige opvolggewasse geplant gaan word nie.

SUIKERMIELIES

Gebruik **ALANEX® 384 EC** as 'n na-plant-vooropkombehandeling. Suikermielie-kultivars toon 'n wye toleransie aan **ALANEX® 384 EC** en slegs bestaande kultivars moet behandel word. Raadpleeg u saadverskaffer en/of verteenwoordiger voordat suikermielies met **ALANEX® 384 EC** behandel word.

KLEI %	ALANEX® 384 EC (L/ha)
0–10	Nie aanbeveel nie
11–15	4.0
16–20	4.5
21–35	5.0
> 35	Nie aanbeveel nie

SUIKERRIET

Voor opkoms van onkruid

Dien 5.0 tot 6.0 L/ha **ALANEX® 384 EC** toe: Indien *Panicum maximum* (alleenlik van saad) die hoofprobleem is, gebruik die hoër dosis.

Vir die beheer van 'n breë spektrum onkruid (eenjarige breëblaar en grasonkruid) kan MCPA of atrasien tot bogenoemde hoeveelhede **ALANEX® 384 EC** bygevoeg word as volg:

PRODUK	DOSIS
MCPA (kalsium sout) (400 g/L)	4.0 L/ha
ATRAZINE® 500 SC	2.0 L/ha- sand tot sandkleileem (tot 35 % klei)
ATRAZINE® 500 SC	3.0 L/ha- sand tot sandkleileem (bo 35 % klei)

Vroeg na opkoms van onkruid

ALANEX® 384 EC kombinasies vir plant- en opslagsuikerriet.

ALANEX® 384 EC DOSIS	IN KOMBINASIE MET
6 L	Plus 2.5 kg DIURON + 1.25 L ERASE
6 L	Plus 2 to 3 L ATRAZINE® 500 SC + 1 tot 2 L GRAMOXONE (*)
(*) Dien GRAMOXONE toe voor die eerste twee blare ontvou	
Dien ALANEX® 384 EC plus DIURON plus ERASE kombinasie beheer <i>Cyperus esculentus</i> , eenjarige grasse en breëblaaronkruid.	

AARTAPPELS

Voor opkoms van onkruid

Dien 4.0 – 5.0 L/ha **ALANEX® 384 EC** toe: Tensy besproei word, dien vooropkoms van aartappels en onkruid toe, na die eerste somerreëns. Gebruik die laer dosis op ligter gronde (0 – 16 % klei).

Vroeë naopkoms van onkruid

ALANEX® 384 EC is 'n vooropkoms onkruiddoder. Vir vroeë na-opkoms toedienings na die eerste somerreëns (mits daar besproei word), voeg GRAMOXONE teen 1.0 – 2.0 L/ha by.

ALANEX® 384 EC/GRAMOXONE mengsels mag nie toegedien word as meer as 10 % van die aartappels opgekom het nie.

GRONDBONE EN SOJABONE

Voor opkoms van gewas en onkruid

Dien 4.0 – 5.0 L/ha toe met plant of nie later as 2 dae na plant. Gebruik die laer dosis op ligter gronde (0 – 16 % klei).

DROëBONE

Dien voor opkoms van die gewas en onkruid toe, binne 2 dae van plant.

KLEI %	ALANEX® 384 EC (L/ha)	OPMERKINGS
0–10	3.0	Die meeste eenjarige grasse wat gelys is sal beheer word. Beheer van <i>Digitaria spp.</i> en <i>Panicum spp.</i> en breëblaar onkruid sal wisselvalig wees. <i>Cyperus esculentus</i> sal nie deur hierdie dosis goed beheer word nie.
11–20	3.5	
>20	4.0	

WAARSKUWING: Koue, nat toestande tussen toediening en ontkieming of vroeë ontwikkeling van droë bone mag lei tot tydelike karteling van blare, blaar brand en vertraagte groei.

SONNEBLOM

Voor opkom van onkruid en gewas

Dien toe vooropkoms van onkruid en gewas teen 4.0–5.0 L/ha afhangend van grondtipe.

Gebruik 4.0 L/ha op ligte grond (0–16 % klei)

UITGEPLANTE KOPKOOL EN BROKKOLI (LATE CORONA AND PREMIUM CROP), EN BRUSSELSE SPRUITE (JADE CROSS)

Voor opkoms van onkruid, na uitplant van gewas

Gebruik 4.0–5.0 L/ha **ALANEX® 384 EC**: Dien so gou as moontlik na die eerste besproeiing na uitplant toe, voordat onkruid opkom.

Gebruik 4.0 L/ha op ligte grond (0–16 % klei).

PYNAPPELS

Voor opkoms van onkruid

Dien **ALANEX® 384 EC** teen 4.0–5.0 L/ha voor-opkoms van onkruid toe. Gebruik 4.0 L/ha op ligte gronde (0–16 % klei).

GRAAN EN VOERSORGHUM

ALANEX® 384 EC kan as 'n na-plant, vooropkom behandeling in graan- en voersorghum toegedien word, mits die saad met 'n saadbeveiliger volgens etiketaanwysings behandel is.

KLEI %	ALANEX® 384 EC (L/ha)
0–10	Nie aanbeveel nie
11–15	4,0
16–20	4,5
21–50	5,0

ONKRUIDE BEHEER DEUR ALANEX® 384 EC**GRASSE**

Botaniese naam	Gewone naam
<i>Brachiaria eruciformis</i>	Litjiesinjaalgras
<i>Chloris virgata</i>	Witplui-Chloris
<i>Digitaria sanguinalis</i>	Kruisvingergras
<i>Echinochloa crusgalli</i>	Hannepootmanna
<i>Panicum maximum</i>	Gewone buffelgras
<i>Panicum schinzii</i>	Vlei Buffelgras
<i>Setaria pallide-fusca</i>	Tuinsetaria
<i>Setaria verticillata</i>	Klitssetaria
<i>Tragus racemosus</i>	Losaarwortelsaadgras
<i>Urochloa panicoides</i>	Tuin-Urochloa

BREËBLAARONKRUIDE

Botaniese naam	Gewone naam
<i>Amaranthus hybridus</i>	Kaapse misbredie
<i>Amaranthus spinosus</i>	Doringmisbredie
<i>Amaranthus thunbergii</i>	Rooimisbredie
<i>Galinsoga parviflora</i>	Knopkruid
<i>Portulaca oleracea</i>	Porslein
<i>Sonchus oleracea</i>	Gewone sydissel

WISSELVALLIGE BEHEER

Botaniese naam	Gewone naam
<i>Anthemis cotula</i>	Stinkkamille
<i>Bidens formosa</i>	Kosmos
<i>Chenopodium album</i>	Withondebossie
<i>Chenopodium carinatum</i>	Groenhondebossie
<i>Cleome monophylla</i>	Enkelblaar- Cleome

Botaniese naam	Gewone naam
<i>Commelina benghalensis</i>	Bengaalse wandelende Jood
<i>Cyperus esculentus</i> *	Geeluintjie
<i>Datura ferox</i> **	Groot stinkblaar(vroegontkiemend)
<i>Datura stramonium</i> **	Gewone stinkblaar (vroegontkiemend)
<i>Stellaria media</i>	Sterremuur
<i>Tagetes minuta</i> **	Langkakiebos (vroegontkiemend)

(*) Beheer van *Cyperus esculentus* (Geeluintjie) is afhanklik van 'n diepgrondbewerking direk voor aanplanting en toediening. Toediening moet geskied 1 tot 2 dae na aanplanting gevolg deur ten minste 12 mm reën binne 7 tot 10 dae.

(**) Laat ontkiemde Stinkblaar (*Datura spp.*) en Kakiebos (*Tagetes minuta*) sowel as Kankerroos (*Xanthium strumarium*) mag nie beheer word deur **ALANEX[®] 384 EC** plus **ATRAZINE[®] 500 SC** mengsels nie.

GRAMOXONE (L 1174) is die geregistreerde handelsmerk van Syngenta Crop Protection.