

Sales Panel

For further information see attached pamphlet
Vir verdere inligting sien aangehegte pamflet



ACETOCHLOR 700 EC

Botswana Reg. No. W130466, Act. No. 18 of 1999

An emulsifiable concentrate herbicide for the pre-emergence control of annual grass and certain broadleaf weeds in maize, sweetcorn and groundnuts.

'n Emulgeerbare konsentraat onkruidodder vir die voor-opkom beheer van eenjarige gras- en sekere breëblaaronkruiden in mielies, suikermielies en grondbone.

Herbicide Group Code **K₃** Onkruidoddergroeppkode

Active ingredient:

Acetochlor (chloroacetanilide).....700 g/ℓ.....
Dichlormid (safener) 87 g/ℓ

Aktiewe bestanddeel:

Asetochloor (chloorasetanilied)
Diklormied (beveiliger)

Net Volume



Netto Volume



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

www.nulandis.com

IN CASE OF POISONING PLEASE PHONE / IN GEVAL VAN VERGIFTIGING SKAKEL 021 931-6129

Batch No:

Lotnommer:

Date of Manufacture:

Vervaardigingsdatum:

UN NO./VN Nr. 1993 – Flammable liquids



CAUTION
VERSIGTIG



Pamphlet

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CAUTION

WARNINGS:

Handle with care
Harmful when swallowed.
Irritating to eyes.
Toxic to fish.
Store in a cool place.

Store unused **ACETOCHLOR 700 EC** in original container, tightly closed and locked out of reach of children, uninformed persons, animals and away from food and feeds.

Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

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

Aerial application - notify all inhabitants of the immediate 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 OCCURRENCE OF RESISTANCE OF THE WEEDS 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 eat, drink or smoke while handling the product or before washing hands and face and changing clothes.

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

In tank mixes with Atrazine or Terbuthylazine:

Do not mix and load within at least 15 m from boreholes, streams, rivers and dams.

Do not apply within at least 15 m from boreholes, streams and rivers.

Do not apply within at least 60 m from dams.

Ensure that no back-siphoning to boreholes or dams takes place when the tank mix is applied through the irrigation system.

When mixing:

Wear eye protection (face shield). In case of contamination with eyes, flush at once with copious quantities of clean water.

Wear rubber gloves.

In case of contact with skin wash immediately with clean water.

When clothes are contaminated, wash skin and change clothing.

When empty, invert the container over the spray tank or mixing tank and allow it 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 at least one tenth of that of the container and add the rinsings to the contents of the spray tank without upsetting the calibration. Destroy the container by puncturing and burying or burning it. Do not use the container for any other purpose.

During application:

Avoid contact with the spray.

Avoid drift to other crops, grazing, rivers, dams and non-target areas.

After application:

Clean applicator thoroughly with **FLUSHSOL** before re-using and dispose of wash water where it will not contaminate crops, grazing, rivers and dams. Refer to the **FLUSHSOL** label for directions of use.

Destroy empty containers and do not use for any other purpose.

Change to clean clothes and wash out contaminated clothing.

Wash yourself with soap and water.

USE RESTRICTIONS:

1. **Do NOT** apply **ACETOCHLOR 700 EC** to seed-maize or inbred parent plants of maize hybrids, nor onto experimental or newly released cultivars, without first consulting your distributor and seed suppliers before application.
2. Take note of the restrictions on follow-up crops and also any use restrictions and recommendations, as mentioned on the labels of other products used in tank mixture with **ACETOCHLOR 700 EC**.
3. **Do NOT** apply **ACETOCHLOR 700 EC** to poorly drained soils, or soils with a compaction layer, as the herbicide may cause crop injury in cases of waterlogging.
4. **Do NOT** use **ACETOCHLOR 700 EC** where seed smaller than "4 Flat" has been planted as a higher risk for damage exists.
5. Heavy rains (25 mm per day or 50 mm over a 3 to 7 day period) on sandy soils (<15% clay) and with low organic matter content (<1%), as well as flood irrigation, may affect weed control adversely.
6. **Do NOT** apply **ACETOCHLOR 700 EC** to sandy soils susceptible to wind erosion.

COMPATIBILITY:

When tank mixes are to be used, it is recommended that small quantities, in the correct proportion, be mixed initially to establish compatibility. Do not mix undiluted products.

RESISTANCE WARNING:

For resistance management, **ACETOCHLOR 700 EC** is a group code K₃ Herbicide. Any weed population may contain individuals naturally resistant to **ACETOCHLOR 700 EC** and other group code K₃ herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. The resistant weeds may not be controlled by **ACETOCHLOR 700 EC** or any other group code K₃ herbicides.

To delay herbicide resistance:

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

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

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

MIXING INSTRUCTIONS:

Half fill the spray tank with clean water then add the required volume of **ACETOCHLOR 700 EC** while agitating the mixture. Continue to agitate the mixture and fill the tank to the required volume with water.

APPLICATION METHOD:

Ground Application:

ACETOCHLOR 700 EC can be applied with a tractor mounted boom sprayer fitted with flat fan spray nozzles which will result in an even horizontal distribution of the spray mixture on the soil surface. Apply in at least 200 l water per hectare. **ACETOCHLOR 700 EC** must preferably be applied directly after planting but not later than five days after planting.

Irrigation or at least 15 mm of rain is needed after application to leach the product into the soil where the seeds of the weeds germinate.

If rainfall does not occur or irrigation has not taken place after application and weeds start to emerge, a shallow cultivation must be carried out to destroy the weeds and to incorporate the **ACETOCHLOR 700 EC** in the upper 10 - 20 mm of soil.

To ensure good weed control the seedbed must be fine, firm and free of any existing weed growth or excessive crop residues prior to application.

AERIAL APPLICATION: MAIZE ONLY

ACETOCHLOR 700 EC and tank mixtures of **ACETOCHLOR 700 EC** with **ATRAFLO 500 SC** (Reg. No. L5504, Act No. 36 of 1947) or **TERBUZINE 600 SC** (Reg. No. L5829, Act No. 36 of 1947)

Aerial application 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 Remedies). It is important to 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 are met:

Equipment:

Use suitable atomising equipment (hydraulic nozzles or rotary atomizers) that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The operator must use a setup that will produce a droplet spectrum with the lowest possible relative span.

All nozzles / atomisers should be positioned within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.

Application parameters:

A minimum volume of 30 ℓ spray mixture 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 aerially at a lower volume rate than recommended above.

A droplet coverage of 20-30 droplets per cm² must be recovered at the target.

A droplet spectrum with a VMD (Volume Median Diameter) of 350 - 400 microns is recommended. Ensure that the production of fine droplets (smaller than 150 microns) is restricted to a minimum.

The height of the spray boom should be maintained at 3-4 metres above the target. Do not spray when aircraft is in a climb, at the top or during a dive, or when banking.

Apply before the crop becomes too dense, thus preventing proper coverage of the weeds.

Meteorological conditions:

The difference between the wet and dry bulb readings as determined by a whirling hygrometer, must not exceed 8 °C

Do not spray under turbulent, unstable conditions during the heat of the day when rising thermals and downdraughts occur.

Do not spray under temperature inversion conditions (spraying in or above the inversion layer).

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:

- reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage)
- damage to other sensitive crops and / or non-target areas through the movement of the suspended spray cloud away from the target field.

Do not spray if the wind speed exceeds 15 km/h.

General:

Ensure that fields are accurately marked and 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.

Pre-emergence

Apply in at least 30 ℓ water per ha.

A minimum of 20 - 30 droplets per cm² must be recovered on the target surface.

Use a droplet spectrum with a VMD of 450 µm.

Post-emergence (where applicable)

Apply in at least 35 ℓ water per ha.

A minimum of 30 to 45 droplets per cm² must be recovered on the target surface.

Use a droplet spectrum with a VMD of 350 µm.

It is essential that the aerial spray operator understands the above requirements and adheres to them.

APPLICATION TABLE:**MAIZE AND SWEETCORN**

% CLAY	ACETOCHLOR 700 EC (l/ha)	REMARKS
0 - 10	0,7 - 1,7	Use the lower dosage if a short period of weed control is required between application and cultivation and/or a follow-on application. In cases of high grass pressure and/or for the suppression of yellow nutsedge, the high rates must be used.
11 - 15	0,9 - 2,1	
16 - 20	1,1 - 2,1	
21 - 30	1,4 - 2,4	
31 - 40	1,7 - 2,7	
41 - 55	2,7	

NOTE: Low temperatures and/or heavy continuous rain directly after planting and application may cause injury such as poor germination and stunting of the crop. Planting too deep may further increase injury to the crop. Seed smaller than "4 Flat" has a higher risk of damage.

MAIZE (TANK MIXTURES)

1. For control of grasses, broadleaf weeds and conditional control of yellow nutsedge a tank mixture of **ACETOCHLOR 700 EC** and **ATRAFLO 500 SC** can be used as follows:

% CLAY	DOSAGE (l/ha)		REMARKS
	ACETOCHLOR 700 EC + ATRAFLO 500 SC		
0 - 10	0,7 - 1,7	2,50	Use the higher dosages of ACETOCHLOR 700 EC if conditional control of yellow nutsedge is required. (See list of weeds, which are variably controlled). Use the high dosage of ACETOCHLOR 700 EC under conditions of high grass pressure especially crab-finger grass in regions with high rainfall.
11 - 15	0,9 - 2,1	3,25	
16 - 20	1,1 - 2,1	3,25	
21 - 30	1,4 - 2,4	4,00	
31 - 40	1,7 - 2,7	4,75	
41 - 55	2,7	5,00	

2. NORTHERN AND WESTERN FREE STATE AND NORTHWEST ONLY:

Tank mixtures of **ACETOCHLOR 700 EC** and **ATRAFLO 500 SC** can be used to control broadleaf weeds and grasses in above areas.

% CLAY	DOSAGE (ℓ /ha)		REMARKS
	ACETOCHLOR 700 EC + ATRAFLO 500 SC		
0 - 10	0,7	2,25	Yellow nutsedge (<i>Cyperus esculentus</i>) will not be controlled satisfactorily. Thorn apple species (<i>Datura</i> spp.) and tall khaki weed (<i>Tagetes minuta</i>) may not be controlled season long.
11 - 15	0,9	2,25	
16 - 20	1,1	2,50	
21 - 30	1,4	2,75	

NOTE:

1. It is practice in some cases, to apply a thiocarbamate herbicide to the soil prior to planting and then to apply the tank mix of **ACETOCHLOR 700 EC** and **ATRAFLO 500 SC** post-emergence of the crop. This practice is acceptable provided that the **ACETOCHLOR 700 EC /ATRAFLO 500 SC** tank mix is sprayed, pre-emergence to the weeds, as it has no post-emergence herbicidal activity. It is recommended that such applications are not made later than the 5-leaf stage of the maize as the leaves of the maize may prevent the spray mixture from reaching the soil.
2. Consult the **ATRAFLO 500 SC** label for recommendations, use restrictions, waiting periods for follow-up crops, list of weeds controlled and maximum allowed dosage per season.
3. A tank mixture of **ACETOCHLOR 700 EC** and **TERBUZINE 600 SC** (Reg. No. L5829) can be used in cases where a broader spectrum of weed control is desired.

% CLAY	DOSAGE (l/ha)		
	ACETOCHLOR 700 EC	PLUS	TERBUZINE 600 SC
0 - 10	0,7 - 1,7		2,1
11 - 15	0,9 - 2,1		2.7
16 - 20	1,1 - 2,1		2.7
21 - 30	1,4 - 2,4		3.3
31 - 40	1,7 - 2,7		3.9
41 - 55	2,7		4.2

NOTE:
controlled.

Consult **TERBUZINE 600 SC** label for full particulars and for weeds

GROUNDNUTS

% CLAY	ACETOCHLOR 700 EC (l/ha)	REMARKS
0 - 10	1,0 - 2,1	Use the higher dosages when longer and better control of broadleaves and conditional control of yellow nutsedge is required.
11 - 30	1,4 - 4,1	

WEEDS CONTROLLED:

The tables below indicate the weeds controlled with **ACETOCHLOR 700 EC**. The control of yellow nutsedge and some broadleaf weeds is variable. See the list of those weeds, which are variably controlled. When control of a broader spectrum of weeds is required, either tank mixes or follow-on applications, with standard registered broadleaf herbicides in combination with **ACETOCHLOR 700 EC** are recommended. Such applications must be made in accordance with the recommendations on labels of the relevant products.

NOTE: This product controls annual grasses. Other annual grasses that were not present during the development trials with the product may possibly also be controlled to a certain degree. The registration holder does not accept any responsibility for unlisted weeds.

WEEDS CONTROLLED BY ACETOCHLOR 700 EC:

ANNUAL GRASSES:

<i>Chloris virgata</i>	Feather top Chloris
<i>Digitaria sanguinalis</i>	Crab-finger grass
<i>Eleusine indica</i> => <i>Eleusine corocana</i>	Goose grass
<i>Panicum schinzii</i>	Sweet buffalo grass
<i>Setaria verticillata</i>	Sticky bristle grass
<i>Urochloa panicoides</i>	Herringbone grass

ANNUAL BROADLEAF WEEDS:

<i>Amaranthus hybridus</i>	Common pigweed
<i>A. spinosus</i>	Thorny pigweed
<i>Chenopodium album</i>	White goosefoot
<i>Commelina benghalensis</i>	Bengal wandering Jew
<i>Galinsoga parviflora</i>	Gallant soldier
<i>Portulaca oleracea</i>	Purslane
<i>Tagetes minuta</i>	Khaki weed

VARIABLE CONTROL:

<i>Cyperus esculentus</i>	Yellow Nutsedge = Yellow Watergrass
<i>Cleome monophylla</i>	Spindlepod

NOTE:

Control of yellow nutsedge may be achieved under the following conditions:

1. Planting into a fine and firm seedbed must be directly preceded by a deep mouldboard ploughing. Application of **ACETOCHLOR 700 EC** must take place within 2 days after planting.
2. Sufficient rain or irrigation (at least 15 mm on light soils and 25 mm on heavy soils) must occur just after application

FLUSHSOL® is the registered trademark of AECL Limited (Nulandis® a division of AECL Ltd.)
ATRAFLO 500 SC & TERBUZINE 600 SC are the registered tradenames of Nulandis® (A division of AECL Limited)

Pamflet

ACETOCHLOR 700 EC

Botswana Reg. Nr. W130466, Act. No. 18 of 1999

'n Emulgeerbare konsentraat onkruidodder vir die voor-opkom beheer van eenjarige gras- en sekere breëblaaronkruid in mielies, suikermielies en grondbone.

Onkruidoddergroepkode	K₃
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Aktiewe bestanddeel:

Asetochloor (chloorasetanilied).....700 g/l

Diklormied (beveiliger)..... 87 g/l

REGISTRASIEHOUER:

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Witfield, 1467

Tel : (011) 823 8000

VERSIGTIG

WAARSKUWINGS:

Hanteer versigtig.

Skadelik wanneer ingesluk.

Giftig vir visse.

Berg in 'n koel plek.

Berg ongebruikte **ACETOCHLOR 700 EC** in die oorspronklike houer, dig toegemaak, en toegesluit buite die bereik van kinders, oningeligte persone, diere en weg van voedsel en voer.

Herbetreding: Moenie behandelde gebied betree alvorens die spuitneerslag droog is nie, tensy beskermende klere oorklere gedra word.

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

Lugtoediening - stel alle persone in die onmiddellike omgewing van die gebied wat behandel gaan word in kennis en reik die nodige waarskuwings uit. Moenie aangrensende gebiede of waterbronne bespuit of toelaat dat die sproeinewel daarheen oorwaai 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 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 ONKRUIDE TEEN DIE BETROKKE MIDDEL SOWEL AS DIE METODE, TYD EN AKKURAAKTHEID 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 eet, drink of rook tydens hantering van die produk alvorens eers gewas en skoon klere aangetrek is nie.

Verhoed besoedeling van voedsel, voer, drinkwater en eetgerei.

In tenkmengsels met Atrasien of Terbutielasien:

Geen vermenging of volmaak van spuittenks moet plaasvind nader as 15 m vanaf boorgate, spruite, riviere en damme nie.

Geen toedienings moet plaasvind nader as 15 m vanaf boorgate, spruite en damme nie.

Geen toedienings moet plaasvind nader as 60 m vanaf damme nie.

Geen terugvloei na boorgate of damme moet plaasvind wanneer die tenkmengsel deur die besproeiingsstelsel toegedien word nie.

Tydens vermenging:

Dra oogbeskerming (gesigmasker) tydens vermenging. Indien oë besoedel word, spoel onmiddellik met groot hoeveelhede skoon water.

Dra rubberhandskoene.

Indien velkontak voorkom, was onmiddellik met groot hoeveelhede skoon water. Indien klere besoedel raak, trek dit uit en was die vel. Sodra die houer leeg is keer dit om oor die spuittenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloei tot 'n gedrup verminder het. Spoel die houer daarna driekeer uit met 'n volume water gelyk aan minstens 'n tiende van die houer en gooi die spoelwater by die inhoud van die spuittenk. Vernietig die houer deur gate daarin te maak en te begrawe of te verbrand. Moenie die houer vir enige ander doel gebruik nie.

Tydens toediening:

Verhoed kontak met die spuitstof sover moontlik.

Verhoed oorwaai na ander gewasse, weiding, riviere, damme en gebiede wat nie onder behandeling is nie.

Na toediening:

Maak toedieningsapparaat skoon met **FLUSHSOL** voor her-gebruik en doen weg met waswater waar dit nie gewasse, weiding, riviere en damme sal besoedel nie. Verwys na die **FLUSHSOL** etiket vir gebruiksaanwysings.

Vernietig leë houters en moet dit nie vir enige ander doel gebruik nie.

Verkleef en was besoedelde klere.

Was uself deeglik met seep en water.

GEBRUIKSBEPERKINGS:

1. **Moenie ACETOCHLOR 700 EC** toedien op saad-mielies of ingeteelde plante van mieliekruisings, ook nie op proef- of nuwe mieliekultivars voordat u die verspreider van **ACETOCHLOR 700 EC** en die saadverspreider geraadpleeg het nie.
2. Neem kennis dat die beperkings by opvolggewasse asook enige gebruiksbeperkings en aanbevelings, soos genoem op die etikette van ander produkte wat in tenkmengsels met **ACETOCHLOR 700 EC** gebruik word, sorgvuldig nagekom word.
3. **Moenie ACETOCHLOR 700 EC** toedien op swak gedreineerde grond, of grond met 'n verdigtingslaag, omdat die onkruidodder onder hierdie toestande gewasskade in geval van waterlogging, mag veroorsaak.
4. **Moenie ACETOCHLOR 700 EC** toedien indien saad kleiner as "4 Plat" geplant is nie, aangesien 'n groter risiko vir skade voorkom.
5. Swaar reën (25 mm per dag of 50 mm oor 'n tydperk van 3 tot 7 dae) op sanderige grond (<15% klei) met 'n lae organiese inhoud (<1%), sowel as vloedbesproeiing, mag onkruidbeheer beïnvloed.
6. **Moenie ACETOCHLOR 700 EC** toedien op sanderige grond wat vatbaar is vir wind erosie nie.

VERENIGBAARHEID:

Indien daar van tenkmengsels gebruik gemaak word, word dit aanbeveel dat die mengsels eers in 'n klein maat in die regte verhoudings gemeng word om verenigbaarheid vas te stel. Moenie onverdunde produkte met mekaar meng nie.

WEERSTANDSWAARSKUWING:

ACETOCHLOR 700 EC is 'n groepkode K₃ onkruidodder. Enige populasie van 'n spesifieke onkruid spesie mag individue insluit wat 'n natuurlike weerstand teen **ACETOCHLOR 700 EC** of enige ander groepkode K₃ onkruidodders het. Indien hierdie onkruidodders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die onkruidpopulasie oorheers. Hierdie weerstandbiedende onkruid sal waarskynlik nie deur **ACETOCHLOR 700 EC** of enige ander groepkode K₃ onkruidodders beheer word nie.

Om weerstand teen onkruidodders te vertraag:

- Vermyn die eksklusiewe herhaaldelike gebruik van onkruidodders met dieselfde groepkode. Wissel af met, of gebruik tenkmengsels van produkte in verskillende onkruidoddergroepcodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in onkruidbeheerprogramme.

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

GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS AANGEDUI

MENGINSTRUKSIES:

Maak die spuitnek halfvol met skoon water en voeg dan die aanbevole dosis **ACETOCHLOR 700 EC** by terwyl die mengsel geroer word. Voeg dan die res van die water by terwyl die mengsel voortdurend geroer word.

TOEDIENINGSMETODE:

Grondtoediening:

ACETOCHLOR 700 EC kan toegedien word met 'n trekker gemonteerde spuitbalk toegerus met platwaaerspuitpunte wat 'n egalige, horisontale verspreiding van die spuitmengsel tot gevolg sal hê. Dien toe in minstens 200 l water per hektaar. **ACETOCHLOR 700 EC** moet verkieslik direk na plant toegedien word maar nie later as 5 dae na plant nie.

Besproeiing of reën van minstens 15 mm na toediening is noodsaaklik om die **ACETOCHLOR 700 EC** in die grond te loos waar die onkruidsaad ontkiem.

Indien reën nie voorkom of besproeiing nie toegepas is na toediening nie en onkruid het begin ontwikkel, moet 'n vlakbewerking toegepas word om die onkruid te vernietig en die **ACETOCHLOR 700 EC** dieselfde tyd met die boonste 10 - 20 mm grond te vermeng.

Om goeie beheer van onkruid te verkry moet die saadbed fyn, ferm en vry wees van enige bestaande onkruidgroeie en oormatige onverrotte plantreste voordat **ACETOCHLOR 700 EC** toegedien word.

LUGTOEDIENING: SLEGS MIELIES

ACETOCHLOR 700 EC en tenkmengsels van **ACETOCHLOR 700 EC** met **ATRAFLO 500 SC** (Reg. Nr. L5504, Wet Nr. 36 van 1947), of **TERBUZINE 600 SC** (Reg. Nr. L5829, Wet Nr. 36 van 1947) kan d.m.v. lugbespuiting toegedien word.

Lugtoediening mag slegs deur 'n geregistreerde lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS Kode 10118 (Aerial Application of Agricultural Pesticides) gedoen word. Dit is belangrik om te verseker dat die spuitmengsel eweredig oor die teikenarea versprei word en dat die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is dus belangrik om aan die volgende kriteria te voldoen:

Toerusting:

- Gebruik geskikte atomiseringsapparaat (hidroliese of roterende spuitkoppe) wat die vereiste druppelgrootte en bedekking sal produseer, maar wat die minste verlies van produk deur wegdrywing sal verseker.
- Die operateur moet 'n stelsel gebruik wat 'n druppelspektrum met die kleinste moontlike relatiewe span sal produseer.
- Al die spuitneuse/atomiseerders moet in die binneste 60 tot 75 % van die vlerkspan geplaas word om die beweging van druppels in die vlerkvorteks in te verhoed.

Toedieningsparameters:

'n Minimum volume van 30 l spuitmengsel per hektaar word aanbeveel. Aangesien hierdie produk nie teen 'n verlaagde volume getoets is nie, kan die registrasiehouer nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effek indien hierdie produk teen 'n laer volume as hierbo aanbeveel, uit die lug toegedien word nie.

'n Druppelbedekking van 20-30 druppels per cm^2 moet op die teikenarea herwin word.

'n Druppelspektrum met 'n VMD van 350 - 400 mikron word aanbeveel. Verseker dat die produksie van fyn druppels (kleiner as 150 mikron) tot 'n minimum beperk word.

Die hoogte van die spuitbalk moet op 3-4 meter bo die teiken gehandhaaf word. Moenie spuit wanneer die vliegtuig aan die bopunt is van, of tydens 'n duik, of terwyl dit uitklim of draai nie.

Dien toe voordat die gewas te ruig word wat sal verhoed dat onkruid behoorlik bedek word.

Meteorologiese toestande :

Die verskil tussen die nat- en droëbollesing, soos met 'n swaaihigrometer bepaal, moet nie 8°C oorskry nie.

Moenie toedien tydens turbulente, onstabiele toestande gedurende die hitte van die dag wanneer styg en dalende konveksie windbeweging plaasvind nie.

Moenie toedien onder temperatuur inversie toestande (deur bo of binne die inversielaag te spuit) nie 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.

Moenie spuit indien die windspoed 15 km/uur oorskry nie.

Algemeen :

Sorg dat die lande akkuraat gemerk is en die spuitoperateur presies weet watter lande gespuit moet word.

Verkry 'n versekering van die spuitoperateur dat aan die bogenoemde vereistes voldoen sal word.

Voor-opkom

Dien toe in 'n volume van minstens 30 ℓ water per ha.

'n Minimum van 20 - 30 druppels per cm² moet op die teikengebied herwin word.

Gebruik 'n druppelgrootte waarvan die VMD 450 µm is.

Na-opkom (waar van toepassing)

Dien toe in 'n volume van minstens 35 ℓ water per ha.

'n Minimum van 30 tot 45 druppels per cm² moet op die teikengebied herwin word.

Gebruik 'n druppelgrootte waarvan die VMD 350 µm is.

Dit is noodsaaklik dat die spuitoperateur bogenoemde vereistes verstaan en daaraan voldoen.

TOEDIENINGSTABEL:**MIELIES EN SUIKERMIELIES**

% KLEI	ACETOCHLOR 700 EC (ℓ/ha)	OPMERKINGS
0 - 10	0,7 - 1,7	Gebruik die laer toedieningshoeveelheid waar 'n kort periode van onkruidbeheer benodig word tussen toediening en 'n skoffelbewerking en/óf 'n opvolgbespuiting. In gevalle van 'n hoë grasdruk en vir onderdrukking van geeluintjies moet die hoër dosis gebruik word.
11 - 15	0,9 - 2,1	
16 - 20	1,1 - 2,1	
21 - 30	1,4 - 2,4	
31 - 40	1,7 - 2,7	
41 - 55	2,7	

LET WEL: Lae temperature en/of swaar aanhoudende reën direk na plant en toediening mag skade soos swak ontkiëming, groeivertraging ens. van die gewas veroorsaak. Deur die té diep plant van die saad, mag die skade vererger. Saad kleiner as "4 Plat" het 'n groter risiko vir skade.

MIELIES (TENKMENGSELS)

- Vir die beheer van gras- en breëblaaronkruid en voorwaardelike beheer van geeluintjies kan 'n tenkmengsel van **ACETOCHLOR 700 EC** en **ATRAFLO 500 SC** soos volg gebruik word.

% KLEI	DOSIS (l/ha)		OPMERKINGS
	ACETOCHLOR 700 EC + ATRAFLO 500 SC		
0 - 10	0,7 - 1,7	2,50	Gebruik die hoër dosis ACETOCHLOR 700 EC indien voorwaardelike geeluintjiebeheer verlang word. (Sien lys van onkruid wat wisselvallig beheer word). Gebruik die hoër dosis ACETOCHLOR 700 EC onder toestande van baie hoë grasdruk en veral van kruisvingergras in gebiede met hoë reënval.
11 - 15	0,9 - 2,1	3,25	
16 - 20	1,1 - 2,1	3,25	
21 - 30	1,4 - 2,4	4,00	
31 - 40	1,7 - 2,7	4,75	
41 - 55	2,7	5,00	

2. **SLEGS IN NOORD- EN WES VRYSTAAT EN NOORDWES:**

Tenkmengsels van **ACETOCHLOR 700 EC** en **ATRAFLO 500 SC** kan gebruik word om gras- en breëblaaronkruid in bogenoemde gebiede te beheer soos volg:

% KLEI	DOSIS (l/ha)		OPMERKINGS
	ACETOCHLOR 700 EC +	ATRAFLO 500 SC	
0 - 10	0,7	2,25	Geeluintjies (<i>Cyperus esculentus</i>) sal nie bevredigend beheer word nie. Olieboomsoorte (<i>Datura</i> spp.) asook kakiebos (<i>Tagetes minuta</i>) mag moontlik nie die hele seisoen beheer word nie.
11 - 15	0,9	2,25	
16 - 20	1,1	2,50	
21 - 30	1,4	2,75	

LET WEL:

1. Dit is praktyk om in sommige gevalle eers vóór plant 'n tiokarbamaat onkruidodder in die grond te werk en daarna, na-opkom van die gewas, op te volg met tenkmengsels van **ACETOCHLOR 700 EC** en **ATRAFLO 500 SC**. Bogenoemde tenkmengsels van **ACETOCHLOR 700 EC** kan in sulke gevalle gebruik word, maar let daarop dat asetochloor slegs voor opkom aktiwiteit het en beslis nie na-opkom van die onkruid toege dien moet word nie. Dit word aanbeveel om nie later as die 5-blaarstadium van die mielies toe te dien nie, aangesien die blare van die gewas verhoed dat die volle dosis op die grond kom.
2. Raadpleeg die **ATRAFLO 500 SC** etiket met betrekking tot aanbevelings, gebruiksbepelings, wagperiodes vir opvolggewasse, onkruid wat beheer word en maksimum dosis wat per seisoen toegelaat word.
3. **ACETOCHLOR 700 EC** en **TERBUZINE 600 SC** (Reg. Nr. L 5829) kan in 'n tenkmengsel gebruik word in gevalle waar 'n wyer spektrum van onkruidbeheer verlang word.

% KLEI	DOSIS (l/ha)		
	ACETOCHLOR 700 EC	PLUS	TERBUZINE 600 SC
0 - 10	0,7 - 1,7		2,1
11 - 15	0,9 - 2,1		2,7
16 - 20	1,1 - 2,1		2,7
21 - 30	1,4 - 2,4		3,3
31 - 40	1,7 - 2,7		3,9
41 - 55	2,7		4,2

LET WEL: Raadpleeg die **TERBUZINE 600 SC** etiket vir volledige besonderhede van die onkruid wat beheer word.

GRONDBONE

% KLEI	ACETOCHLOR 700 EC (l/ha)	OPMERKINGS
0 - 10 11 - 30	1,0 - 2,1 1,4 - 4,1	Gebruik die hoër dosis indien langer en beter breëblaaronkruidbeheer en/of voorwaardelike geeluintjiebeheer verlang word.

ONKRUIDE BEHEER:

Die onderstaande tabel bevat 'n lys van onkruid wat met **ACETOCHLOR 700 EC** beheer word. Die beheer van geeluintjies asook sekere breëblaaronkruid is wisselvallig. Bestudeer die tabel wat verwys na onkruid wat wisselvallig beheer word. Indien 'n breër spektrum van onkruidbeheer verlang word, word dit aanbeveel dat kombinasies met **ACETOCHLOR 700 EC** gemaak word d.m.v. óf tenkmengsels óf opvolgbespuitings van standaard geregistreerde breëblaaronkruidodders. Sulke toedienings moet gemaak word volgens die etiketaanbevelings van die betrokke produkte.

LET WEL:

Hierdie produk beheer eenjarige grasse. Ander eenjarige grasse wat nie tydens die ontwikkelingsproewe met die middel voorgekom het nie, kan ook moontlik in 'n meerdere of mindere mate beheer word. Die registrasiehouer aanvaar egter geen aanspreeklikheid ten opsigte van ongelyste onkruid nie.

ONKRUIDE BEHEER DEUR ACETOCHLOR 700 EC:

EENJARIGE GRASSE:

<i>Chloris virgata</i>	Witpluim-chloris
<i>Digitaria sanguinalis</i>	Kruisvingergras
<i>Eleusine indica</i> => <i>Eleusine corocana</i>	Jongosgras
<i>Panicum schinzii</i>	Soet buffelsgras
<i>Setaria verticillata</i>	Klitsborselgras
<i>Urochloa panicoides</i>	Beesgras

EENJARIGE BREËBLAARONKRUIDE:

<i>Amaranthus hybridus</i>	Gewone misbredie
<i>A. spinosus</i>	Doringmisbredie
<i>Chenopodium album</i>	Withondebossie
<i>Commelina benghalensis</i>	Bengaalse wandelende Jood
<i>Galinsoga parviflora</i>	Knopkruid
<i>Portulaca oleracea</i>	Porslein = varkslaai
<i>Tagetes minuta</i>	Kakiebos

WISSELVALLIGE BEHEER:

<i>Cyperus esculentus</i>	Geeluintjie
<i>Cleome monophylla</i>	Rusperbossie = Enkelblaar Cleome

LET WEL:

Die beheer van geeluintjies sal slegs onder die volgende toestande verkry word:

1. 'n Diep rysterbordploegbewerking gevolg deur verdere grondvoorbereiding om die saadbed fyn, gelyk en ferm te kry moet die plantproses direk vooraf gaan. Toediening van **ACETOCHLOR 700 EC** moet binne 2 dae na die plantproses volg.
2. Voldoende reën of besproeiing (minstens 15 mm op ligte grond en 25 mm op swaar gronde) moet na toediening volg.

FLUSHSOL® is die geregistreerde handelsmerk van AECI Beperk (Nulandis® 'n afdeling van AECI Beperk)

ATRAFLO 500 SC & TERBUZINE 600 SC is die geregistreerde handelsname van Nulandis® ('n Afdeling van AECI Beperk)