




Guardian®

25 L

Herbicide

An emulsifiable concentrate herbicide for pre-emergence control of grass and certain broadleaved weeds and post-emergence control on the crops as mentioned.

contains:
Acetochlor (chloroacetanilide)

SEE ENCLOSED PAMPHLET FOR FULL PARTICULARS

Reg. No. L4862 (Act No. 36 of 1947)

An emulsifiable concentrate herbicide for pre-emergence control of grass and certain broadleaved weeds in maize and groundnuts.

SIEN INGESLOTE PAMFLET VIR VOLLEDIGE BESONDERHEDE

Reg. Nr. L4862 (Wet Nr. 36 van 1947)

'n Emulgeerbare konsentraat onkruidodder vir die vooropkomsbeheer van gras- en sekere breetblaaronkruid in mielies, en grondbone.

GROUP / GROEP **K3** HERBICIDE / ONKRUIDODDER

Active ingredient:

Acetochlor (chloroacetanilide)..... 840 g/l

Aktiewe bestanddeel:

Acetochloor (chloroasetanilied)..... 840 g/l



WARNING

HAZARD STATEMENTS:

Harmful if swallowed or inhaled. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure if swallowed. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ protective clothing/ eye protection/ face protection.

REGISTERED BY / GEREJISTREER DEUR: Bayer (Pty) Ltd / (Edms) Bpk

Reg. 1968/011192/07

P.O. Box/Posbus 143, Isando, 1600 South Africa/Suid-Afrika, TEL: (OFFICE HOURS) / (KANTOORURE) (011) 921 5911

IN CASE OF POISONING PLEASE PHONE / IN GEVAL VAN VERGIFTIGING SKAKEL ASSEBLIEF: 086 155 5777

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Guardian® is 'n geregistreerde handelsmerk van die Monsanto Technology LLC

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BATCH NUMBER / LOTNOMMER: See on pack

DATE OF MANUFACTURE / DATUM VERVAARDIG: Sien op houer

UN No. / VN Nr. 3082



Bayer

RSA/0123/Guardian 25 L/Sales Panel Code: ZA87340627D

WARNINGS:

HAZARD STATEMENTS:

- Harmful if swallowed or inhaled.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May cause respiratory irritation.
- May cause damage to organs (kidney, liver) through prolonged or repeated exposure if swallowed.
- Very toxic to aquatic life with long lasting effects.

Handle with care.

Store in a cool place away from food, feed, seed and other agricultural remedies.

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

RE-ENTRY: Do not enter treated area within 12 hours of spraying unless wearing protective clothing

ALTHOUGH THIS REMEDY HAS BEEN EXTENSIVELY TESTED UNDER A LARGE VARIETY OF CONDITIONS THE REGISTRATION HOLDER DOES NOT WARRANT THAT IT WILL BE EFFICACIOUS UNDER ALL CONDITIONS BECAUSE THE ACTION AND EFFECT THEREOF MAY BE AFFECTED BY FACTORS SUCH AS ABNORMAL SOIL, CLIMATIC AND STORAGE CONDITIONS, QUALITY OF DILUTION WATER, COMPATIBILITY WITH OTHER SUBSTANCES NOT INDICATED ON THE LABEL AND THE OCCURRENCE OF RESISTANCE OF THE WEEDS TO THE REMEDY CONCERNED AS WELL AS BY THE METHOD, TIME AND ACCURACY OF APPLICATION. THE REGISTRATION HOLDER FURTHERMORE DOES NOT ACCEPT RESPONSIBILITY FOR DAMAGE TO CROPS, VEGETATION, THE ENVIRONMENT OR HARM TO MAN OR ANIMAL OR FOR LACK OF PERFORMANCE OF THE REMEDY CONCERNED DUE TO FAILURE OF THE USER TO FOLLOW THE LABEL INSTRUCTIONS OR TO THE OCCURRENCE OF CONDITIONS WHICH COULD NOT HAVE BEEN FORESEEN IN TERMS OF THE REGISTRATION. CONSULT THE SUPPLIER IN THE EVENT OF ANY UNCERTAINTY.

PRECAUTIONS:

PRECAUTIONARY STATEMENTS:

- Obtain special instructions before use.
- Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- Wear protective gloves/ protective clothing/ eye protection/ face protection.

Do not breathe in fumes or spray mist.

Wear rubber gloves when handling concentrate.

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 spray drift and/or contamination onto crops, grazing, rivers, dams or any other areas not under treatment.

Prevent contamination of drinking water, eating utensils, food, feedstuff, seed, fertilizers and other agricultural chemicals.

The container is rinsed by filling one quarter to one-third with clean water, replacing the cap and shaking vigorously for 30 seconds. The rinse is then added to the contents of the spray tank. This rinsing procedure is repeated a further two times (i.e. three times in all) with a final draining into the spray tank. Rinsed containers should then be punctured and stored safely with their caps off until they can be properly disposed of. Do not re-use the empty container for any other purpose.

RELEVANT SUBSTANCES:

Components	Concentration (%)
Acetochlor	75.8
Furilazole	3.8
Solvent Naphtha (petroleum), heavy aromatic	8.6
Calcium dodecylbenzenesulphonate	2.9

FIRST AID MEASURES:

General: Remove the person to a well-ventilated room or to fresh air. In case of suspected poisoning call a physician.

Skin contact: Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.

Eye contact: Rinse eyes with clean water for several minutes.

Inhalation: Immediately remove to fresh air.

Ingestion: Obtain immediate medical advice. Do not induce vomiting unless instructed

Medical instructions: **Antidote:** No known antidote. Apply symptomatic therapy.

RESISTANCE WARNING:

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

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] in weed control programmes.

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

DIRECTIONS FOR USE: USE ONLY AS DIRECTED.

General information

Do NOT apply **GUARDIAN** to inbred parent plants of maize hybrids, nor onto experimental or newly released cultivars without referring to the manufacturer and seed suppliers before application.

Read the restrictions on rotation crops on labels of herbicides mixed with **GUARDIAN**.

Do not apply **GUARDIAN** to poorly drained soils as waterlogging and the herbicide may cause crop injury.

Do not apply **GUARDIAN** to sandy soils which are susceptible to wind erosion.

Flood irrigation can reduce weed control performance.

Optimum weed control is obtained on a fine, even seedbed, free of weeds, trash and clods. However, **GUARDIAN** will give weed control in stubble mulch or minimum tillage conditions.

Before using **GUARDIAN** in combination with other herbicides, read the labels and adhere to label recommendations and restrictions. A physical compatibility test should always be carried out prior to application.

Crop Restrictions

Maize

GUARDIAN and **Atrazine SC** could be applied as a split application only and are restricted to areas other than the lower potential soils of the North West Province, North and Western Free State.

MIXING INSTRUCTIONS:

When mixing **GUARDIAN** with other herbicides or using in a program spray, read the labels of all the involved products and adhere to the manufacturer's recommendations.

Shake container well before use. Close container securely after use.

When mixing **GUARDIAN** with other registered herbicides, use the following mixing procedure chronologically:

- Fill spray tank to three-quarters with clean water. Add the required amount of complementary herbicide to the water, agitating continuously.
- Continue filling the spray tank with water and add the required amount of **GUARDIAN** 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 and clean spraying equipment at the end of the spraying operation.

APPLICATION INFORMATION:

Ensure that spray equipment is accurately calibrated and regularly checked before and during the spraying operation.

Apply **GUARDIAN** tank mixtures in maize and plant sugarcane preferably at planting or immediately after planting and within 3 days after last cultivation. Do not apply pre-emergence treatments on maize later than three days after planting and last cultivation. Use 100 - 300 l/ha total spray volume for overall ground application.

10 - 15 mm rain within 7 to 10 days after application is necessary for good weed control.

For optimum weed control, seedbed preparation should take place within 3 days before planting, which is followed immediately or within 3 days by the **GUARDIAN** application and then 10 - 15 mm rain or irrigation within 3 days to wash the herbicide into the zone of germinating weeds.

Under dry conditions, weed seedlings may emerge. These are usually stunted and can be controlled with either a shallow cultivation, which also mixes the herbicide with the top 10 - 20 mm of soil, or with a registered post-emerge herbicide treatment.

If soil crusting becomes a problem rotary harrow in the same direction the rows are planted, to assist maize germination.

Cultivation after application may reduce weed control if untreated soil is brought to the surface.

Ensure that sufficient fertilizer is placed near the seed at planting to promote vigorous seedling growth. This is especially important with early planting when the soil temperature is relatively low accompanied by continuous moist conditions.

APPLICATION TABLE:

CROP	APPLICATION RATE PER HECTARE		REMARKS
GROUNDNUTS	Clay %		Apply GUARDIAN after planting but before crop and weed emergence.
	0 - 10	0.75 - 1.5	
	11 - 20	1.0 - 2.0	For the post-emergence control of GUARDIAN tolerant broadleaf weeds in groundnuts, Basagran can be used after GUARDIAN is applied at planting.
	21 - 30	1.5 - 3.0	

Use the lower dosage rate for the control of the following annual grasses:

- Chloris virgata* (Feathertop chloris)
- Eleusine indica* (Goose grass)
- Panicum schinzii* (Sweet buffalo grass)

Use the higher dosage rate for the control of:

- Digitaria sanguinalis* (Crab finger grass)
- Urochloa panicoides* (Herringbone grass)

MAIZE	SINGLE APPLICATION: The control of annual grasses and certain broadleaf weeds (Table 1)		Apply pre-emerge treatments within 3 days of planting and last cultivation.
	Clay %	GUARDIAN L/Ha	
	0 - 10 %	0.75 - 1.0	
	11 - 20 %	1.0 - 1.3	
	21 - 30 %	1.3 - 1.65	
	31 - 40 %	1.65 - 1.8	
	> 40 %	2.0	

Use the lower dosage rate for the control of the following annual grasses:

- Chloris virgata* (Feathertop chloris)
- Eleusine indica* (Goose grass)
- Panicum schinzii* (Sweet buffalo grass)

Use the higher dosage rate for the control of:

- Digitaria sanguinalis* (Crab finger grass)
- Urochloa panicoides* (Herringbone grass)

CROP	APPLICATION RATE PER HECTARE			REMARKS
MAIZE	The control of annual grasses, certain broadleaf weeds and Yellow nutsedge (<i>Cyperus esculentus</i>) (Table 2)			
	Clay %	BULLET	GUARDIAN	
	0 - 10 %	2.25	0.8	
	11 - 15 %	2.75	0.8	
	16 - 20 %	3.5	0.8	
	21 - 30 %	4.25	0.8	
	31 - 40 %	5	0.8	
	> 40 %	Not Recommended	Not Recommended	

WEEDS CONTROLLED BY BULLET:

Grasses

- *Brachiaria eruciformis* Sweet signal grass
- *Chloris virgata* Feathertop chloris
- *Digitaria sanguinalis* Crab finger grass
- *Eleusine indica* Goose grass
- *Fimbristylis* spp. Slender biesie
- *Panicum maximum* Common buffalo grass
- *Panicum schinzii* Sweet buffalo grass
- *Setaria pallide-fusca* Garden bristle grass
- *Setaria verticillata* Sticky bristle grass
- *Tragus berteronianus* Small carrotseed grass
- *Tragus racemosus* Large carrotseed grass

MAIZE	The control of annual grasses and improved broadleaf weed control (Table 3)				GUARDIAN can be tank mixed with either Bullet or Atrazine SC or Terbuzin 600 SC and applied post plant, pre-emergence of crop and weeds.
	Clay %	GUARDIAN L/Ha	PLUS Atrazine SC L/Ha	OR Terbuzin 600 SC L/Ha	
	0 - 10 %	0.75 - 1.0	0.75 - 1.0	2.0	
	11 - 20 %	1.0 - 1.3	2.0 - 3.25	2.7	
	21 - 30 %	1.3 - 1.65	2.5 - 4.0	3.3	
	31 - 40 %	1.65 - 1.8	3.25 - 4.75	4.0	
	41 - 55 %	2.0	3.5 - 5.0	4.0	

When short soil persistence is required in lieu of follow up crops use only 1.5 €/ha **Atrazine SC** on soils up to 35% clay and 2.0 €/ha on soils > 35% clay.

- Adhere to the use restrictions as indicated on the labels of the products containing Triazine for follow-up crops.
- Use the lower rates on lighter soils and lower weed population pressure.

MAIZE	The control of annual grasses and broadleaf weeds in Northwest Province and the Northern and Western Free State (Table 4)			GUARDIAN and Atrazine SC tank mix can be applied post plant within 3 days of planting and last cultivation. Use the lower dosage on lighter soils where a dosage range is indicated.
	Clay %	GUARDIAN + Atrazine SC L/Ha		
	0 - 10 %	0.5	2.0 - 2.5	
	11 - 20 %	0.75 - 1.0	2.25 - 2.75	
	21 - 30 %	1.0	2.25 - 3.0	

CROP	APPLICATION RATE PER HECTARE					REMARKS
MAIZE	Maize follow-up Application: The control of annual grasses and extended broadleaf weed control (refer to Table 1)					<p>GUARDIAN can be applied to the soil surface within 3 days of planting and last soil cultivation. Follow up with Atrazine SC, Terbuzin 600 SC or a tank-mix of Atrazine SC plus 2,4-D Amine as an early post emergence treatment. The Atrazine SC or Atrazine SC tank mix with 2,4-D Amine should be applied before broadleaf weeds are at the 5-leaf stage and before grasses have tillered. Crab finger grass (<i>Digitaria sanguinalis</i>) must be treated before the 3-leaf stage. Terbuzin 600 SC should be applied before broadleaf weeds are at the 2 and 3-leaf stage respectively and before grasses emerged.</p>
	Clay %	Post plant Pre-emergence	Follow-up application Early post emergence			
		GUARDIAN L/Ha	PLUS Atrazine SC L/Ha	OR Terbuzin 600 SC L/Ha	OR	
	0 - 10	0.75 - 1.0	2.5	2.0	Atrazine SC 2.0 + 2,4-D Amine (480 g/l) 0.75 or Atrazine SC 2.0	
	11 - 20	1.0 - 1.3	3.25	2.7		
	21 - 30	1.3 - 1.65	4.0	3.3		
	31 - 40	1.65 - 1.8	4.75	4.0		
> 40	2.0	5.0	4.0			
MAIZE	Extended control of annual grasses and broadleaf weeds under dry conditions and the suppression of Yellow nutsedge (<i>Cyperus esculentus</i>) (refer to Table 2)					<p>Apply GUARDIAN as a pre plant, shallow incorporated treatment followed by an early post plant, pre or post emerge treatment of Atrazine SC or Terbuzin 600 SC or a post emerge treatment of Atrazine SC with 2,4-D Amine tank-mix. Incorporation of GUARDIAN should be on a fine, even seedbed free of clods and trash, using a tine implement set at 5 - 10 cm to give an effective incorporation depth of 2.5 - 5 cm. Tines should be set to give an even incorporation with a rolling basket, drag harrow or spring loaded fine tooth harrow in tandem. The incorporation of GUARDIAN is not recommended on soils of 0 - 10% clay nor those over 35 clay.</p>
		Pre-plant incorporated	Post-plant follow-up application			
	Clay %		Pre-emergence or Early post-emergence L/Ha		Early post- emergence L/Ha	
		GUARDIAN L/Ha	Atrazine SC L/Ha	OR Terbuzin 600 SC L/Ha	Atrazine SC 2.0 + 2,4-D Amine (480 g/l) 0.75 or Atrazine SC 2.0	
	0 - 10	*	*	*		
	11 - 20	1.5	3.25	2.7		
	21 - 30	2.0	4.0	3.3		
	31 - 35	2.5	4.75	4.0		
	* Not recommended					

CROP	APPLICATION RATE PER HECTARE				REMARKS
MAIZE	SPLIT APPLICATION: Extended control of annual grasses and broadleaf weeds (refer to Table 1)				<p>Apply GUARDIAN as a post plant pre-emerge treatment within 3 days of planting and last cultivation followed by an early post emerge treatment of:</p> <p>* GUARDIAN tank mixed with either Atrazine SC alone or with Atrazine SC plus Spotaxe, or with Terbuzin 600 SC.</p> <p>* Harness Xtra tank mixed with either Atrazine SC alone, or with Atrazine SC plus, or with Terbuzin 600 SC.</p>
	Clay %	Post plant pre-emergence	Early post-emergence		
		GUARDIAN L/Ha		Plus	
	0 - 10	0.75	0.75 GUARDIAN or 0.75 HARNESX XTRA	2.0 Atrazine SC with or without or 2.0 Terbuzin 600 SC	
	11 - 20	1.0	0.75 - 1.0 GUARDIAN or 0.75 - 1.0 HARNESX XTRA	3.0 Atrazine SC or 2.0 Atrazine SC or 2.7 Terbuzin 600 SC	
	21 - 30	1.3	1.0 GUARDIAN or 1.0 HARNESX XTRA	3.0 - 3.5 Atrazine SC or 2.0 Atrazine SC or 3.3 Terbuzin 600 SC	
31 - 50	1.65	1.0 GUARDIAN or 1.0 HARNESX XTRA	or 2.0 Atrazine SC or 4.0 Terbuzin 600 SC		

Early post emergence treatments must be applied before the 5-leaf stage of broadleaf weeds and before tillering of annual grasses.

Crab finger grass (*Digitaria sanguinalis*) must be treated before the 3-leaf stage.

CROP	APPLICATION RATE PER HECTARE	REMARKS
MAIZE	FOLLOW UP APPLICATION AFTER EPTAM SUPER TREATMENT	For extended weed control in EPTC Plus or Eptam Super treated maize, apply GUARDIAN alone within 3 weeks (see ' Maize single application Table 1 ') or in a tank mix with either Atrazine SC , or Terbuzin 600 SC within 3 weeks of planting (see ' Maize single application ' Tables 2-4). Before applying GUARDIAN , all existing weeds should be destroyed by a shallow cultivation. Where the crop has emerged, all applications should be directed inter row and not over the row.
	CONSERVATION TILLAGE	Apply a tank mix of ROUNDUP TURBO and GUARDIAN prior to or within 3 days of planting the crop (see ' Maize single application Table 1 '). This treatment is directed at destroying existing young weeds and having pre-emergent herbicidal action. The planting process may result in weed emergence on or near the row and use should be made of a later post emergence treatment.
	Tank mixes with ROUNDUP POWERMAX herbicide in ROUNDUP READY Maize	ROUNDUP POWERMAX - herbicide may be tank mixed with GUARDIAN or for pre-emergent applications, and with Harness Xtra or 2,4-D Amine or MCPA for post-emergent broadcast (before V8 stage) and post directed (after V8 stage) applications. Follow the manufacturer's recommendations on the label. ROUNDUP POWERMAX herbicide should not be tank mixed with Atrazine .

WEEDS CONTROLLED BY GUARDIAN

<i>Brachiaria eruciformis</i>	Sweet signal grass	<i>Chenopodium album</i>	White goosefoot
<i>Chloris virgata</i>	Feathertop chloris	<i>Chenopodium carinatum</i>	Green goosefoot
<i>Digitaria sanguinalis</i>	Crab finger grass	<i>Commelina benghalensis</i>	Bengal wandering jew
<i>Eleusine indica</i>	Goose grass	<i>Datura</i> spp.	Thorn apple (early germinating only)
<i>Panicum maximum</i>	Common buffalo grass	<i>Hibiscus trionum</i>	Bladder weed
<i>Panicum schinzii</i>	Sweet buffalo grass	<i>Physalis angulata</i>	Wild gooseberry
<i>Setaria pallide-fusca</i>	Garden bristle grass	<i>Portulaca oleracea</i>	Purslane
<i>Urochloa panicoides</i>	Herringbone grass	<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Amaranthus deflexus</i>	Perennial pigweed	<i>Tagetes minuta</i>	Khaki weed (early germinating only)
<i>Amaranthus hybridus</i>	Common pigweed		
<i>Amaranthus spinosus</i>	Thorny pigweed		

Since **GUARDIAN** controls annual grasses, other annual grasses that are not listed may be controlled to a greater or lesser degree. The registration holder does not accept any liability in respect of the control of unlisted weeds.

WEEDS VARIABLY CONTROLLED BY GUARDIAN

Cyperus esculentus Yellow nutsedge

The control of *Cyperus esculentus* is dependent on the following:

- Where a dosage choice is given, the higher rate should be used.
- Planting must be preceded by a deep ploughing.
- **GUARDIAN** must be applied immediately after planting and last cultivation or within 2 days
- ±12 mm rain or irrigation within 7 - 10 days of spraying.
- Refer to the **ROUNDUP TURBO** Label for effective control of *Cyperus esculentus* in a pre-plant situation.

WEEDS CONTROLLED BY GUARDIAN AND ATRAZINE SC AT THE HIGHER APPLICATION RATE IN MAIZE

<i>Acanthospermum australe</i>	Eight-seeded prostrate starbur	<i>Crotalaria sphaerocarpa</i>	Mielie crotalaria
<i>Acanthospermum glabratum</i>	Five-seeded prostrate starbur	<i>Datura ferox</i>	Large thorn apple
<i>Acanthospermum hispidum</i>	Upright starbur	<i>Datura stramonium</i>	Thorn apple
<i>Amaranthus hybridus</i>	Common pigweed	<i>Galinsoga parviflora</i>	Gallant soldier
<i>Amaranthus spinosus</i>	Thorny pigweed	<i>Gisekia pharnaceoides</i>	Gisekia
<i>Amaranthus thunbergii</i>	Red pigweed	<i>Hibiscus trionum</i>	Bladder weed
<i>Bidens bipinnata</i>	Spanish blackjack	<i>Hibiscus cannabinus</i>	Kenaf
<i>Bidens formosa</i>	Cosmos	<i>Nicandra physaloides</i>	Apple of Peru
<i>Bidens pilosa</i>	Blackjack	<i>Physalis angulata</i>	Wild gooseberry
<i>Chenopodium album</i>	White goosefoot	<i>Portulaca oleracea</i>	Purslane
<i>Chenopodium carinatum</i>	Green goosefoot	<i>Richardia brasiliensis</i>	Tropical richardia
<i>Cleome monophylla</i>	Spindlepod	<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Cleome rubella</i>	Pretty lady	<i>Tagetes minuta</i>	Khakiweed
<i>Commelina benghalensis</i>	Bengal wandering jew	<i>Vigna vexillata</i>	Wild cowpea

The following trademarks and registrations under Act No 36 of 1947 are acknowledged:

Product	Reg. No.	Registration holder
2,4-D amine	L 3619/L6459	Dow AgroSciences, (Pty) Ltd
BULLET	L5623	Bayer AG
Atrazine 500 SC	L6431	Dow AgroSciences, (Pty) Ltd
Basagran	L2916	BASF S.A. (Pty) Ltd
Durazin 600 SC	L4684	Syngenta AG, Basel, Switzerland
Eptam Super	L3897	Syngenta AG, Basel, Switzerland
EPTC Plus	L4504	Universal Crop Protection (Pty) Ltd
HARNESS XTRA	L7703	Bayer AG
GUARDIAN	L4862	Bayer AG
MCPA	L3616	Dow AgroSciences
ROUNDUP POWERMAX	L7769	Bayer AG
ROUNDUP TURBO	L7166	Bayer AG
Terbuzin 600 SC	L4683	Syngenta AG, Basel, Switzerland

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WAARSKUWINGS:

GEVAARVERKLARINGS:

- Skadelik indien ingesluk of ingeasem.
- Mag allergiese reaksie veroorsaak.
- Veroorsaak ernstige oogirritasie.
- Mag lugwegirritasie veroorsaak.
- Mag skade aan organe (niers, lewer) veroorsaak deur langdurige en herhaaldelike blootstelling indien ingesluk.
- Baie giftig vir waterlewendes organismes met langdurige gevolge.

Hanteer versigtig.

Berg in 'n koel plek, weg van voedsel, voer, saad of enige ander landboumiddels.

Hou buite bereik van kinders, oningeligte persone en diere.

HERBETREDINGSPERIODE: Moenie bespuitte areas betree binne 12 ure na bespuiting tensy beskermde klere gedra word.

ALHOEWEL HIERDIE MIDDEL OMVATTEND ONDER 'N GROOT VERSEKIDENHEID 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 STOWKE 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 AKKURAAHEID 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 DIE TOESTANDE WAT NIE KRAGTENS DIE REGISTRASIE VOORSIEN KON WORD NIE. RAADPLEEG DIE VERSKAFFER IN DIE GEVAL VAN ENIGE ONSEKERHEID.

VOORSORGMATREËLS:

VOORSORGSVERKLARINGS:

- Kry spesiale instruksies voor gebruik.
- Moet nie poeier/walm/gas/stuifsel/dampe/spuistof inasem nie.
- Dra beskermende handskoene/beskermende klere/oogbeskerming/gesigbeskerming.

Moenie spuitmis of spuitnewel inasem nie.

Dra rubberhandskoene gedurende hantering van die konsentraat.

As die middel met die vel of oë in aanraking kom, was dadelik met baie water. Indien nodig moet mediese behandeling verkry word.

Moet nie eet, drink of rook tydens of na gebruik alvorens deeglik gewas en skoon klere aangetrek is nie.

Voorkom spuitstofwegdrywing na en/of besoedeling van enige gewasse, weiding, riviere, damme en enige ander gebiede wat nie behandel word nie.

Moenie drinkwater, eetgerei, voedsel, voer, saad, kunsmis en enige ander landbouchemikalieë besoedel nie.

Spoel die lê houer driekeer uit met 'n volume water gelykstaande aan 'n minimum van 10 % van die houer. Gooi die spoelwater by die inhoud van die spuittenk en vernietig die houer deur dit vol gate te slaan.

Moenie lê houers vir enige ander doel gebruik nie.

RELEVANTE STOWWE:

Components	Concentration (%)
Acetochlor	75.8
Furilazole	3.8
Solvent Naphtha (petroleum), heavy aromatic	8.6
Calcium dodecylbenzenesulphonate	2.9

NOODHULPMAATREËLS:

Algemeen: Verwyder die persoon na 'n goed geventileerde kamer of vars lug.

Velkontak: Verwyder gekontamineerde klere en was liggaamsdele deeglik met seep en water.

Oogkontak: Spoel oë herhaaldelik met skoon water.

Inaseming: Verwyder persoon dadelik na area met vars lug.

Inname: Verkry onmiddellike mediese advies. Moenie braking induseer nie.

Mediese instruksies: Geen teenmiddel is bekend. Behandel simptome.

WEERSTANDSWAARSKUWING:

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

Om weerstand teen onkruidodders te vertraag:

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

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

GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS AANGEDUI

Algemene inligting

Moenie **GUARDIAN** op ingeteelde oerplante van mieliebasters of op eksperimentele of nuut vrygestelde kultivars gebruik alvorens die vervaardiger en die saadverspreider geraadpleeg is nie.

Lees die beperkings rakende opvolggewasse op die etikette van onkruidodders wat met **GUARDIAN** gemeng word.

Moenie **GUARDIAN** op swak gedreineerde grond toedien nie. Die onkruidodder mag tydens versuip-toestande skade aan gewasse veroorsaak.

Moenie **GUARDIAN** op waaisande toedien nie.

Vloedbesproeiing mag lei tot verminderde onkruidbeheer.

Optimale onkruidbeheer word verkry op 'n fyn, gelyk saadbed wat vry van kluitte, onkruid en plantreste is. **GUARDIAN** sal ook onkruidbeheer waar verminderde of deklaagbewerking toegepas word.

Alvorens **GUARDIAN** saam met ander middels gebruik word, moet die etiket van die betrokke middel gelees en enige beperkings en aanbevelings nagekom word.

Gewasbeperkings

Mielies

Dien **GUARDIAN** en **Atrazine SC** slegs as 'n verdeelde behandeling toe en ook NIE op die laer potensiaal gronde van die Noord-Wes provinsie en die Noord- en Wes-Vrystaat nie.

MENGINSTRUKSIES:

Wanneer **GUARDIAN** met ander onkruidodders vermeng word of in programbespuitings gebruik word, moet die etikette van alle betrokke produkte gelees en die aanbevelings nagekom word.

Skud die houër deeglik voor gebruik. Maak dig toe na gebruik.

Indien **GUARDIAN** saam met enige ander geregistreerde onkruidodder in dieselfde spuittenk vermeng word, moet die volgende instruksies kronologies gevolg word:

- Maak die spuittenk driekwart vol met skoon water en voeg die gekose hoeveelheid komplimentêre onkruidodder by terwyl daar gedurig geroer word.
- Maak die spuittenk nou amper vol met water en voeg die **GUARDIAN** by. Vul nou die res van die tenk met water.
- Verseker dat die mengsel gedurende vulling en tydens bespuiting deurgaans geroer word.
- Tenkmengsels moet deeglik uitgespuit word en nie oornag in die spuittenk gelaat word nie.
- Spuittoerusting moet deeglik na toediening uitgespoel word.

TOEDIENINGSINLIGTING:

Sorg dat die toedieningsapparaat korrek gekalibreer is en gereeld nagegaan word voor en tydens toediening.

GUARDIAN -tenkmengsels moet verkieslik met plant, of onmiddellik na plant en binne 3 dae na laaste grondbewerking by mielies en suikerriet toegedien word. Die vooropkomsbehandeling by mielies mag nie later as drie dae na plant en laaste grondbewerking toegedien word nie. Gebruik 100 - 300 l/ha van die spuitmengsel vir algehele grondtoediening.

10 - 15 mm reën binne 7 - 10 dae na toediening is nodig vir goeie onkruidbeheer.

Vir optimale onkruidbeheer, dien **GUARDIAN** onmiddellik of tot 3 dae na plant en laaste grondbewerking toe. 10 - 15 mm reën of besproeiing is binne 3 dae na toediening nodig om die onkruidodder in die sone van ontkiemende onkruidside in te was.

Onder droë toestande mag onkruidsaailinge opkom, maar hulle is gewoonlik verpot en kan vernietig word met 'n vlak bewerking wat terselfdertyd die onkruidodder met die boonste 10 - 20 mm grondlaag vermeng, of dit kan vernietig word met 'n bespuiting met 'n geregistreerde na-opkoms onkruidodder.

Indien korsvorming 'n probleem word, moet 'n roltandeg in dieselfde rigting as die plantrye gebruik word om die ontkieming van die mielies te bevorder.

Skoffelbewerking na toediening mag onkruidbeheer benadeel as onbehandelde grond na die oppervlak gebring word.

Sorg dat voldoende kunsmis met plant naby die saad geplaas word om kragtige saailingegroei te bevorder. Dit is veral van belang waar vroeë geplant word terwyl die grondtemperatuur relatief laag is, gepaardgaande met 'n aaneenlopende vogtige toestande.

TOEDIENINGSHOEVEELHEDE:

GEWAS	TOEDIENINGSHOEVEELHEDE PER HEKTAAR		OPMERKINGS
GRONDBONE	KLEI %		Dien GUARDIAN toe na plant, maar voor die opkoms van die gewas en die ontkieming van die onkruid. Vir die na-opkomsbeheer van GUARDIAN -bestande breekblaaronkruid in grondbone kan Basagran na 'n GUARDIAN -bespuiting toegedien word.
	0 - 10	0.75 - 1.5	
	11 - 20	1.0 - 2.0	
	21 - 30	1.5 - 3.0	

Gebruik die **laer dosis slegs** vir die beheer van die volgende eenjarige grasse:

- Chloris virgata* (Witpluimchloris)
- Eleusine indica* (Jongosgras)
- Panicum schinzii* (Soetbuffelsgras)

Gebruik die **hoër dosis** vir die beheer van:

- Digitaria sanguinalis* (Kruisvingergras)
- Urochloa panicoides* (Beesgras)

GEWAS	TOEDIENINGSHOEVEELHEDE PER HEKTAAR	OPMERKINGS
MIELIES	EENMALIGE BESPUITING: Die beheer van eenjarige grasse en sekere breëblaaronkruid. (Tabel 1)	
	KLEI %	GUARDIAN L/Ha
	0 - 10 %	0.75 - 1.0
	11 - 20 %	1.0 - 1.3
	21 - 30 %	1.3 - 1.65
	31 - 40 %	1.65 - 1.8
> 40 %	2.0	
Dien toe as vooropkoms- behandeling binne 3 dae na plant en laaste grondbewerking.		

Gebruik die laer dosis op ligter gronde vir die beheer van:

- *Chloris virgata* (Witpluimchloris)
- *Eleusine indica* (Jongosgras)
- *Panicum schinzii* (Soetbuffelsgras)

Gebruik die hoër dosis vir hoë besmettings van:

- *Digitaria sanguinalis* (Kruisvingergras)
- *Urochloa panicoides* (Beesgras)

MIELIES	Die beheer van eenjarige grasse, sekere breëblaaronkruid en Geeluintjies (<i>Cyperus esculentus</i>) (Tabel 2)		
	KLEI %	BULLET L/Ha	GUARDIAN L/Ha
	0 - 10 %	2.25	0.8
	11 - 15 %	2.75	0.8
	16 - 20 %	3.5	0.8
	21 - 30 %	4.25	0.8
	31 - 40 %	5	0.8
	> 40 %	Nie Aanbeveel nie	Nie Aanbeveel nie

ONKRUIDE WAT DEUR BULLET BEHEER WORD:

Grasse

- | | |
|---------------------------------|---------------------|
| • <i>Brachiaria eruciformis</i> | Litjessinjaalgras |
| • <i>Chloris virgata</i> | Witpluimchloris |
| • <i>Digitaria sanguinalis</i> | Kruisvingergras |
| • <i>Eleusine indica</i> | Jongosgras |
| • <i>Fimbristylis</i> spp. | Biesie |
| • <i>Panicum maximum</i> | Gewone buffelsgras |
| • <i>Panicum schinzii</i> | Soetbuffelsgras |
| • <i>Setaria pallide-fusca</i> | Rooiborselsaadgras |
| • <i>Setaria verticillata</i> | Kliitsborselgras |
| • <i>Tragus berteronianus</i> | Kleinwortelsaadgras |
| • <i>Tragus racemosus</i> | Grootwortelsaadgras |

GEWAS	TOEDIENINGSHOEVEELHEDE PER HEKTAAR				OPMERKINGS
MIELIES	Die beheer van eenjarige grasse en verbeterde beheer van breëblaaronkruid (Tabel 3)				Dien 'n tenkmengsel van GUARDIAN met Bullet of Atrasien SC of Terbuzin 600 SC toe as na-plant-, maar vooropkoms-behandeling van die gewas en onkruid.
	Klei %	GUARDIAN L/Ha	PLUS Atrasien SC L/Ha	OF Terbuzin 600 SC L/Ha	
	0 - 10 %	0.75 - 1.0	0.75 - 1.0	2.0	
	11 - 20 %	1.0 - 1.3	2.0 - 3.25	2.7	
	21 - 30 %	1.3 - 1.65	2.5 - 4.0	3.3	
	31 - 40 %	1.65 - 1.8	3.25 - 4.75	4.0	
41 - 55 %	2.0	3.5 - 5.0	4.0		

Wanneer 'n kort grondnawerking t.o.v. opvolggewasse verlang word, gebruik slegs 1.5 //ha **Atrasien SC** ha op gronde tot 35% klei en 2.0 //ha op gronde > 35% klei.

- Hou by die gebruiksbepelings vir opvolggewasse, soos op die etikette van die Triasienbevattende middels aangedui.
- Gebruik die laer dosisse op die ligter gronde en waar die onkruidpopulasiedruk nie so hoog is nie.

MIELIES	Die beheer van eenjarige grasse en sekere breëblaaronkruid in die Noord-Wes Provinsie en Noord- en Wes-Vrystaat. (Tabel 4)			Dien 'n tenkmengsel van GUARDIAN en Atrasien SC as vooropkomsbehandeling binne 3 dae na plant en laaste grondbewerking toe. Gebruik die laer dosis op die ligter gronde waar die dosiseuse aangebied word.
	Klei %	GUARDIAN + Atrasien SC L/Ha L/Ha		
	0 - 10 %	0.5	2.0 - 2.5	
	11 - 20 %	0.75 - 1.0	2.25 - 2.75	
21 - 30 %	1.0	2.25 - 3.0		

MIELIES	MIELIES OPVOLGBESPUITING: Die beheer van eenjarige grasse en die verlengde beheer van breëblaaronkruid. (Tabel 1)				Dien GUARDIAN toe as vooropkomsbehandeling binne 3 dae na plant en laaste grondbewerking. Volg die bespuiting op met 'n vroeë naopkomsbespuiting van Atrasien SC , Terbuzin 600 SC of 'n tenkmengsel van Atrasien SC plus 2,4-D Amine . Die Atrasien SC - bespuiting alleen, of in 'n tenkmengsel met 2,4-D Amine moet voor die 5-blaarstadium van die breëblaaronkruid en voor die grasse stoel, toegedien word. Vir die beheer van Kruisvingergras (<i>Digitaria sanguinalis</i>) moet die toediening voor die 3-blaarstadium plaasvind. Terbuzin 600 SC moet voor die 2- en 3-blaarstadium van breëblaaronkruid en voor grasse opkom; respektiewelik, toegedien word.	
	Klei %	Na plant Voor-opkoms	Opvolgbespuiting Vroeg na-opkoms			
		GUARDIAN L/Ha	PLUS Atrasien SC L/Ha	OF Terbuzin 600 SC L/Ha		OF
	0 - 10	0.75 - 1.0	2.5	2.0		Atrazine SC 2.0 + 2,4-D Amine (480 g/l) 0.75 of Atrazine SC 2.0
	11 - 20	1.0 - 1.3	3.25	2.7		
	21 - 30	1.3 - 1.65	4.0	3.3		
	31 - 40	1.65 - 1.8	4.75	4.0		
> 40	2.0	5.0	4.0			

GEWAS	TOEDIENINGSHOEVEELHEDE PER HEKTAAR				OPMERKINGS	
MIELIES	Verbeterde beheer van eenjarige grasse en breëblaaronkruidе onder droë toestande en die onderdrukking van Geeluintjies (<i>Cyperus esculentus</i>) (Tabel 2)				Werk GUARDIAN vlak in net voor plant, opgevolg met 'n vroeg naplant, voor- of na-opkomsbespuiting van Atrasien SC of Terbuzin 600 SC of 'n na-opkomsbespuiting van 'n Atrasien SC en 2,4-D Amine tenkmengsel. Die inwerking van GUARDIAN moet op 'n fyn, gelyk saadbed wat vry is van kluite en plantreste plaasvind. Werk die GUARDIAN effektief 2.5 - 5 cm diep in, met behulp van 'n ligte tandimplement wat 5 - 10 cm diep werk. Die tande van die tandimplement moet gestel word om 'n egalige inwerking te verseker en 'n rolmandjie, sleepeg of tandeg moet agteraan die implement gekoppel word om 'n egalige vermenging en gelyk saadbed te verseker. Die inwerking van GUARDIAN word nie aanbeveel op gronde wat 0 tot 10% klei of bo 35% klei bevat nie.	
		Voor plant ingewerk	Na plant opvolgbespuiting			
	Klei %		Voor opkoms of Vroeg na-opkoms L/Ha	Vroeg na-opkoms L/Ha		
		GUARDIAN L/Ha	Atrasien SC L/Ha	Of Terbuzin 600 SC L/Ha		Atrazine SC 2.0 + 2,4-D Amine (480 g/l) 0.75 of Atrazine SC 2.0
	0 - 10	*	*	*		
	11 - 20	1.5	3.25	2.7		
	21 - 30	2.0	4.0	3.3		
	31 - 35	2.5	4.75	4.0		
* Nie aanbeveel nie						
MIELIES	VERDEELDE OPVOLGBESPUITING: Verlengde beheer van eenjarige grasse en breëblaaronkruidе (Tabel 1)				Dien GUARDIAN toe as vooropkomsbehandeling binne 3 dae na plant en laaste grondbewerking, opgevolg met 'n vroeë naopkomsbespuiting van: * GUARDIAN in 'n tenkmengsel met Atrasien SC alleen, of Atrasien SC plus Spotaxe , saam met Terbuzin 600 SC . * Harness Xtra in 'n tenkmengsel met Atrasien SC alleen, of Atrasien SC saam met Terbuzin 600 SC .	
	Klei %	Na plant Voor opkoms L/Ha	Vroeg na opkoms			
		GUARDIAN L/Ha	Plus			
	0 - 10	0.75	0.75 GUARDIAN of 0.75 HARNES XTRA	2.0 Atrasien SC met of sonder 2.0 Terbuzin 600 SC		
	11 - 20	1.0	0.75 - 1.0 GUARDIAN of 0.75 - 1.0 HARNES XTRA	3.0 Atrasien SC of 2.0 Atrasien SC of 2.7 Terbuzin 600 SC		
	21 - 30	1.3	1.0 GUARDIAN of 1.0 HARNES XTRA	3.0 - 3.5 Atrasien SC of 2.0 Atrasien SC of 3.3 Terbuzin 600 SC		
	31 - 50	1.65	1.0 GUARDIAN of 1.0 HARNES XTRA	of 2.0 Atrasien SC of 4.0 Terbuzin 600 SC		

Die na-opkomsbehandeling moet voor die 5-blaarstadium van die breëblaaronkruid en voor die stoelstadium van eenjarige grasse plaasvind. Kruisvingergras (*Digitaria sanguinalis*) moet voor die 3-blaarstadium behandel word.

GEWAS	TOEDIENINGSHOEVEELHEDE PER HEKTAAR	OPMERKINGS
MIELIES	OPVOLGBESPUITINGS NA EPTAM SUPERBEHANDELING	Vir verlengde onkruidbeheer moet die EPTC Plus - of Eptam Super behandeling binne 3 weke opgevolg word met GUARDIAN alleen (Sien ' Mielies - Eenmalige Bespuiting, Tabel 1 '), of in 'n tenkmengsel met Atrasien SC , of Terbuzin 600 SC (Sien ' Mielies - Eenmalige Bespuiting, Tabelle 2 - 4 '). Alle bestaande onkruid moet vernietig word met 'n vlak skoffelbewerking voor die GUARDIAN -behandeling. Waar die toediening na opkoms plaasvind, moet die bespuiting tussen die rye gerig word.
	BEWARINGSBEWERKING	Dien 'n tenkmengsel van ROUNDUP TURBO plus GUARDIAN voor of binne 3 dae na plant of laaste grondbewerking toe (sien ' Mielies - Eenmalige Bespuiting, Tabel 1 '). Die oogmerk met die behandeling is om jong bestaande onkruid te vernietig en 'n na-opkoms effek te hê. Met plant vind grondversteuring in die plantry plaas wat onkruid stimuleer om te ontkiem. Die gebruik van 'n naopkomsonkruidodder word vir die doel aanbeveel.
	ROUNDUP POWERMAX - onkruidodder tenkmengsel vir gebruik in ROUNDUP READY mielies	ROUNDUP POWERMAX - onkruidodder mag vooropkoms van mielies in tenkmengsels met GUARDIAN toegedien word. Na-opkoms van die mielies kan Harness Xtra of 2,4-D Amine of MCPA in tenkmengsels met die ROUNDUP POWERMAX onkruidodder toegedien word as algehele (voor V8 stadium) of gerigte bespuitings (na V8 stadium). Raadpleeg die verskaffer se etiketaanbevelings. Tenkmengsels van ROUNDUP POWERMAX onkruidodder en Atrasien word nie aanbeveel nie.

ONKRUID WAT DEUR GUARDIAN BEHEER WORD

<i>Brachiaria eruciformis</i>	Litjessinjalgras
<i>Chloris virgata</i>	Witpluimchloris
<i>Digitaria sanguinalis</i>	Kruisvingergras
<i>Eleusine indica</i>	Jongosgras
<i>Panicum maximum</i>	Gewone buffelsgras
<i>Panicum schinzii</i>	Soetbuffelsgras
<i>Setaria pallide-fusca</i>	Rooiborselsaadgras
<i>Urochloa panicoides</i>	Beesgras
<i>Amaranthus deflexus</i>	Meerjarige misbredie
<i>Amaranthus hybridus</i>	Gewone misbredie
<i>Amaranthus spinosus</i>	Doringmisbredie
<i>Chenopodium album</i>	Withondebossie
<i>Chenopodium carinatum</i>	Groenhondebossie
<i>Commelina benghalensis</i>	Bengaalse wandelende jood
<i>Datura</i> spp.	Stinkblaar (alleenlik vroeg ontkiemend)
<i>Hibiscus trionum</i>	Terblansbossie
<i>Physalis angulata</i>	Wilde appelliefie
<i>Portulaca oleracea</i>	Porselein
<i>Schkuhria pinnata</i>	Kleinkakiebos
<i>Tagetes minuta</i>	Kakiebos (alleenlik vroeg ontkiemend)

Aangesien **GUARDIAN** eenjarige grasse beheer, kan ander eenjarige grasse wat nie gelys is nie, ook tot 'n mindere of meerdere mate beheer word. Die registrasiehouer aanvaar egter geen aanspreeklikheid t.o.v. ongelyste onkruid nie.

ONKRUIDE WAT WISSELVALLIG DEUR GUARDIAN BEHEER WORD

<i>Cyperus esculentus</i>	Geeluintjies
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Die beheer van *Cyperus esculentus* is afhanklik van die volgende:

- Waar die dosiskeuse aangebied word moet die hoër dosis gebruik word.
- 'n Diepberwering moet die plantproses voorafgaan.
- Dien **GUARDIAN** onmiddellik of binne 2 dae na plant en laaste grondbewerking toe.
- Ongeveer 12 mm reën of besproeiing binne 7 - 10 dae na bespuiting.
- Verwys na **ROUNDUP TURBO** etiket vir effektiewe beheer van *Cyperus esculentus* in 'n voorplantingsituasie.

ONKRUIDE WAT DEUR 'N TENKMENGSEL VAN GUARDIAN EN DIE HOËR ATRASIEN SC DOSIS BEHEER WORD

<i>Acanthospermum australe</i>	Agtsadige kruipsterklits
<i>Acanthospermum glabratum</i>	Vyfsadige Kruipsterklits
<i>Acanthospermum hispidum</i>	Regopsterklits
<i>Amaranthus hybridus</i>	Gewone misbredie
<i>Amaranthus spinosus</i>	Doringmisbredie
<i>Amaranthus thunbergii</i>	Rooimisbredie
<i>Bidens bipinnata</i>	Spaanse knapsekêrel
<i>Bidens formosa</i>	Kosmos
<i>Bidens pilosa</i>	Knapsekêrel
<i>Chenopodium album</i>	Withondebossie
<i>Chenopodium carinatum</i>	Groenhondebossie
<i>Cleome monophylla</i>	Rusperbossie
<i>Cleome rubella</i>	Mooinooitjie
<i>Commelina benghalensis</i>	Bengaalse wandelende jood
<i>Crotalaria sphaerocarpa</i>	Mielie crotalaria
<i>Datura ferox</i>	Groot stinkblaar
<i>Datura stramonium</i>	Stinkblaar
<i>Galinsoga parviflora</i>	Knopkruid
<i>Gisekia pharmaceoides</i>	Gisekia
<i>Hibiscus trionum</i>	Terblansbossie
<i>Hibiscus cannabinus</i>	Wildestokroos
<i>Nicandra physaloides</i>	Basterappelliefie
<i>Physalis angulata</i>	Wilde appelliefie
<i>Portulaca oleracea</i>	Porselein
<i>Richardia brasiliensis</i>	Tropiese richardia
<i>Schkuhria pinnata</i>	Kleinkakiebos
<i>Tagetes minuta</i>	Kakiebos
<i>Vigna vexillata</i>	Wilde akkerboontjie

Die volgende handelsmerke en registrasies onder Wet 36 van 1947 word erken:

Produk	Reg. Nr.	Registrasiehouer
2,4-D amine	L 3619/L6459	Dow AgroSciences, (Edms) Bpk
BULLET	L5623	Bayer AG
Atrasien 500 SC	L6431	Dow AgroSciences, (Edms) Bpk
Basagran	L2916	BASF S.A. (Edms) Bpk
Durazin 600 SC	L4684	Syngenta AG, Basel, Switzerland
Eptam Super	L3897	Syngenta AG, Basel, Switzerland
EPTC Plus	L4504	Universal Crop Protection (Edms) Bpk
HARNESS XTRA	L7703	Bayer AG
GUARDIAN	L4862	Bayer AG
MCPA	L3616	Dow AgroSciences
ROUNDUP POWERMAX	L7769	Bayer AG
ROUNDUP TURBO	L7166	Bayer AG
Terbuzin 600 SC	L4683	Syngenta AG, Basel, Switzerland

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