



SEE ENCLOSED PAMPHLET  
FOR FULL PARTICULARS

Reg. No. L6618 (Act No.36 of 1947)

A herbicide formulated as a water dispersible granule, for the control of certain broadleaf and grass weeds in sugarcane.

SIEN INGESLOTE PAMFLET VIR  
VOLLEDIGE BESONDERHEDE

Reg. Nr. L6618 (Wet Nr. 36 van 1947)

'n Onkruidoder geformuleer as 'n water disperseerbare korrel, vir die beheer van sekere breëblaar- en grasonkruid in suikerriet.

GROUP / GROEP **F<sub>2</sub>** HERBICIDE / ONKRUIDDODER



WARNING

**HAZARD STATEMENTS:**

Harmful if swallowed or inhaled. Suspected of damaging the unborn child. Very toxic to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS:**

Obtain special instruction before use. Do not breathe dust / spray. Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Active ingredient:**

Isoxaflutole (isoxazole)....750 g/kg

**Aktiewe bestanddeel:**

Isoksafutool (isoksasool)....750 g/kg

**REGISTERED BY / GEREGISTREER 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:** 0861 555 777

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Merlin® is 'n geregistreerde handelsmerk van Bayer AG.

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BATCH NUMBER / LOTNOMMER: See on pack

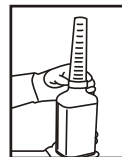
DATE OF MANUFACTURE / DATUM VERVAARDIG: Sien op houer

UN No. / VN Nr.: 3077



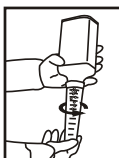

Break the seal.

Breek die seël.



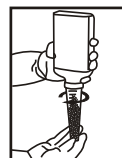
Place the measuring cylinder on the cap.

Plaas die maatsilinder op die prop.



Turn the bottle over and turn the measuring cylinder anti-clockwise.

Keer bottel om, en draai die maatsilinder anti-kloksgewys.



Turn the measuring cylinder clockwise once the required volume has flowed into the measuring cylinder.

Draai maatsilinder kloksgewys sodra die gewenste hoeveelheid produk in die maatsilinder uitgeloop het.



Remove the measuring cylinder from the cap.

Verwyder die maatsilinder van die prop af.



Pour out the measured dose of product.

Gooi die afgemete hoeveelheid produk uit.




500 g

**Herbicide**

A herbicide formulated as a water dispersible granule, for the control of certain broadleaf and grass weeds in sugarcane.

contains:

isoxaflutole (isoxazole)



## WARNINGS:

### HAZARD STATEMENTS:

- Harmful if swallowed or inhaled.
- Suspected of damaging the unborn child.
- Very toxic to aquatic life with long lasting effects.

Poisonous when swallowed.

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

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

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

Although **Merlin** has been tested on most important cultivars and no significant phytotoxicity in the form of yield reduction has been recorded under normal growing conditions, this does not mean that a more sensitive cultivar might not be commercialized in the future. Where a new cultivar is encountered, large areas should not be sprayed without prior testing of **Merlin** on that cultivar.

**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 instruction before use.
- Do not breathe dust / spray.
- Wear protective gloves/ protective clothing/ eye protection/ face protection.

Do not inhale spray mist.

Wash with soap and water after use or skin contact.

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

Prevent spray drift onto other crops, grazing, rivers, dams or other areas not under treatment.

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

Clean all equipment thoroughly after use and do not pollute the environment with wash water.

Do not apply where the roots of desirable plants might absorb the chemical.

Rinse the pre-mix container well.

Destroy the original container which contained **Merlin** by puncturing and burning it. Do not use the container for any other purpose.

## RELEVANT SUBSTANCES:

Formulation components	CAS Numbers	Conc. (%)
Isoxaflutole	141112-29-0	75,00
Lignosulfonic acid, sodium salt, sulfomethylated	68512-34-5	>= 3,0 – <=10,0
Sodium diisopropyl-naphthalene sulphonate	1322-93-6	>= 3,0 – <=10,0

## USE RESTRICTIONS:

1. To avoid damage to follow-up crops the following waiting period should be applied between application of **Merlin** and planting:

**SUGARCANE** ..... NONE

**MAIZE** ..... 6 MONTHS

**ALL OTHER CROPS** ..... 12 MONTHS

**NOTE:** The abovementioned waiting periods will only be valid if the correct quantity of **Merlin** has been applied according to the soil type and an average or above-average rainfall has occurred during and after the season in which **Merlin** was applied. Test planting is always recommended.

2. Where **Merlin** is applied to soils which expand when wetted and crack or crumble upon drying, **Merlin** may remain active in the soil for much longer than the above waiting periods might indicate. Therefore **Merlin** must not be used on such soils if it is intended to plant isoxazole-sensitive crops in the foreseeable future.
3. Avoid double application, e.g., overlapping spray swaths.
4. Do not use on stony soil.
5. Do not use on plant cane.
6. Do not use on soils that contain less than 10 % clay.

## RESISTANCE WARNING:

**Merlin** is a member of the isoxazole group of herbicides. The mode of action of this group is the inhibition of the 4-HPPD enzyme and, as such it is classified by HRAC as a Group Code F<sub>2</sub> herbicide. Any weed population may contain individuals naturally resistant to **Merlin** and other Group Code F<sub>2</sub> herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **Merlin** or any other Group Code F<sub>2</sub> herbicides.

Since the presence of resistant weeds is difficult to detect prior to herbicide application, it is of the utmost importance that treated areas be inspected at regular intervals to identify the occurrence of herbicide-resistant weeds timeously. Bayer (Pty) Ltd will not accept liability for performance failures in the event of a build-up of resistant weeds resulting from inadequate resistance management practices as indicated on the label.

To delay herbicide resistance:

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

For specific information on resistance management contact your local Bayer CropScience representative.

**DIRECTIONS FOR USE:** USE ONLY AS DIRECTED**COMPATIBILITY:**

Compatibility studies have been conducted with **Merlin** in combination with each ONE of the remedies listed below (unless otherwise specified in this label):

AS VARIATIONS MAY EXIST BETWEEN FORMULATIONS OF PRODUCTS CONTAINING THE SAME ACTIVE INGREDIENTS, THE TRADE NAMES AND REGISTRATION NUMBERS OF THE TESTED PRODUCTS ARE SHOWN. DO NOT MIX **MERLIN** WITH ANY OTHER PRODUCTS.

**Merlin** is compatible with **Bayer Diuron** (Reg. No. L4558), **Karmex DF** (Reg. No. L5507), **Gesapax 500 SC** (Reg. No. L2784), **Gramoxone** (L1174), and **Velpar DF** (L5432)

**MIXING AND APPLICATION INSTRUCTIONS:****USE THE SPRAY MIXTURE WITHIN 6 HOURS AFTER MIXING**

Prepare a pre-mix with the required amount of **Merlin** and a few litres of clean water in a separate container. Half fill the spray tank with water. Add the pre-mix to the tank. Add the mixing partner to the tank at this stage and then top up with water. Keep the chemical in continuous suspension by means of agitation. After each day's spraying flush the tank out thoroughly with water. For optimum results spray as soon as possible after mixing. Accurately calibrate spray equipment prior to application. Use fan type nozzles to ensure a uniform coverage. Apply onto a clod-free surface. If, after application, dry weather conditions should prevail, deep germinating weeds may germinate and develop. Under these conditions the appropriate post-emergence herbicide should be used. Use 100-400 ℓ water per ha for overall application.

**APPLICATION TABLE:**

CROP	SOIL CLAY PERCENTAGE	APPLICATION RATE PER HECTARE	REMARKS
<b>SUGARCANE</b> Ratoon cane only  (Dryland and irrigated)	10 - 24%	100 - 150 g <b>Merlin</b> *  plus either 2,0 ℓ <b>Bayer Diuron</b> or 2,0 kg <b>Karmex DF</b> or 3,0-4,0 ℓ <b>Gesapax 500 SC</b>	For broadleaf and grass weed control in light textured soils. Apply pre-emergence of the weeds, at spiking, but no later than the 4-leaf stage of the cane.

CROP	SOIL CLAY PERCENTAGE	APPLICATION RATE PER HECTARE	REMARKS
<b>SUGARCANE</b> Ratoon cane only  (Dryland and irrigated)	25 - 36 %	150 - 200 g <b>Merlin</b> *  plus either 2,0 - 2,5 ℓ <b>Bayer Diuron</b> or 2,0 - 2,5 kg <b>Karmex DF</b> or 3,0 - 4,0 ℓ <b>Gesapax 500 SC</b>	For broadleaf and grass weed control in medium textured soils. Apply pre-emergence of the weeds, at spiking, but no later than the 4-leaf stage of the cane.
	Above 36 %	200 - 250 g <b>Merlin</b> *  plus either 2,0 - 2,5 ℓ <b>Bayer Diuron</b> or 2,0 - 2,5 kg <b>Karmex DF</b> or 3,0 - 4,0 ℓ <b>Gesapax 500 SC</b>	For broadleaf and grass weed control in heavy textured soils. Apply pre-emergence of the weeds, at spiking, but no later than the 4-leaf stage of the cane.

\* Use the higher dosage rate on heavier soils in the soil clay percentage category and/or where greater weed pressure is anticipated.

**Merlin** can be applied as a tank mixture with **Gramoxone (L1174)** or **Velpar DF (L5432)** under dryland conditions. Consult the **Gramoxone** and **Velpar** labels for full particulars.

**BROADLEAF WEEDS CONTROLLED:**

<i>Ageratum conyzoides</i>	billy goat weed
<i>Amaranthus deflexus</i>	perennial pigweed (from seed)
<i>A. hybridus</i>	common pigweed
<i>A. spinosus</i>	spiny pigweed
<i>A. thunbergii</i>	red pigweed

**BROADLEAF WEEDS CONTROLLED:**

<i>Apium leptophyllum</i>	wild celery
<i>Bidens pilosa</i>	common blackjack
<i>Chenopodium album</i>	white goosefoot
<i>C. carinatum</i>	green goosefoot
<i>Conyza bonariensis</i>	horseweed
<i>C. sumatrensis (albida)</i>	tall fleabane
* <i>Datura ferox</i>	large thorn apple
* <i>D. stramonium</i>	thorn apple
<i>Euphorbia hirta</i>	red milkweed
* <i>Flaveria bidentis</i>	smelter's bush
<i>Gnaphalium luteo-album</i>	jersey cudweed
<i>G. pennsylvanicum</i>	Gnaphalium
<i>Hibiscus trionum</i>	bladder weed
<i>Hypochoeris radicata</i>	hairy wild lettuce
* <i>Parthenium hysterophorus</i>	bastard feverfew
<i>Portulaca oleracea</i>	purslane
<i>Richardia brasiliensis</i>	tropical Richardia
<i>Schkuhria pinnata</i>	dwarf marigold
* <i>Senecio madagascariensis</i>	ragwort
<i>Sesamum triphyllum</i>	wild sesame
<i>Sida cordifolia</i>	heartleaf Sida
<i>Solanum nigrum</i>	nightshade
<i>Tagetes minuta</i>	khaki weed

**GRASS WEEDS CONTROLLED:**

<i>Chloris virgata</i>	feather top chloris
<i>Digitaria sanguinalis</i>	crab finger-grass
<i>D. ternata</i>	black seed finger-grass
<i>Eleusine indica</i>	goose grass
<i>Panicum maximum</i>	common buffalo grass
<i>Panicum schinzii</i>	sweet buffalo grass
* <i>Paspalum dilatatum</i>	common Paspalum
* <i>Urochloa mosambicensis</i>	bushveld herringbone grass

\* Later flushes of these weeds may not be adequately controlled.

**NOTE:** **Merlin** controls the above mentioned weed species in the tank mixes as indicated. Other weed species that were not present during the development trials with the product, may also be controlled to a certain degree. The registration holder does not accept any responsibility for unlisted weeds.

**NOTES:**

1. Tank mixes standing for long periods of time could result either in chlorosis of the sugarcane (if sprayed onto the foliage) or in reduced residual efficacy, or both.
2. Tank mixes of **Merlin** and **Gesapax 500 SC** could result in increased chlorosis. These symptoms are of a transitory nature and yield will not be affected significantly.
3. Application of the higher recommended rates could induce marginal chlorosis, which is transient in nature and should not affect yield.
4. Sugarcane under any form of stress is more likely to display marginal chlorosis after **Merlin** applications. The greater and more sustained the stress factor, the longer the plant will take to grow out of the symptoms.
5. The use of **Merlin** on newly limed soil could cause crop chlorosis.
6. If **Merlin** is mixed with water containing high levels of chlorine, its efficacy may be reduced.
7. Do not add any adjuvants to the spray mixture.

**BAYER (PTY) LTD ACKNOWLEDGES THE FOLLOWING:**

The trade mark **Gesapax**<sup>®</sup> is the property of a Syngenta Group Company.  
 The trade mark **Gramoxone**<sup>®</sup> is the property of a Syngenta Group Company.  
 The trade mark **Karmex**<sup>®</sup> is the property of DuPont de Nemours International Societe Anonyme  
 The trade mark **Velpar**<sup>®</sup> is the property of DuPont de Nemours International Societe Anonyme

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## WAARSKUWINGS:

### GEVAARVERKLARINGS:

- Skadelik indien ingesluk of ingeasem.
- Vermoede dat dit die ongebore kind beskadig.
- Baie giftig vir waterlewendes organismes met langdurige gevolge.

Giftig indien ingesluk.

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

Hou buite bereik van kinders, oningeligte persone en diere.

**Herbetreding** - Moenie behandelde gebied binnegaan alvorens die spuitneerslag droog is nie, tensy beskermende oorklere gedra word.

Alhoewel **Merlin** op die meeste belangrike kultivars getoets is, met geen betekenisvolle simptome van fitotoksiteit in die vorm van oesverlagings, onder normale groeitoestande nie, beteken dit nie dat 'n meer vatbare kultivar nie in die toekoms gekommersialiseer kan word nie. Waar 'n nuwe kultivar teëgekrom word, moet groot areas nie behandel word voordat **Merlin** op daardie kultivar getoets is 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 BEINVLOED 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 ONKRUIDE TEEN DIE BETROKKE MIDDEL SOWEL AS DIE METODE, TYD EN AKKURAAATHEID 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 VERSKAFER IN DIE GEVAL VAN ENIGE ONSEKERHEID.**

## VOORSORGMATREËLS:

### VOORSORGSVERKLARINGS:

- Kry spesiale instruksies voor gebruik.
- Moet nie poeier / spuitstof inasem nie.
- Dra beskermende handskoene/beskermende klere/oogbeskerming/gesigbeskerming.

Moenie die sproeinewel inasem nie.

Was met seep en water na gebruik of velkontak.

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

Verhoed wegdrywing van die sproeinewel na ander gewasse, weidings, riviere, damme of ander gebiede wat nie behandel word nie.

Verhoed besoedeling van voedsel, eetgerei, voer en drinkwater.

Maak alle apparaat deeglik skoon na gebruik en moenie die omgewing met spoelwater besoedel nie.

Moenie toedien waar die wortels van gewensde plante die middel mag opneem nie.

Spoel die voorafmeng-houer deeglik uit.

Vernietig die oorspronklike houër wat **Merlin** bevat het deur gate daarin te maak en te verbrand. Moenie die houër vir enige ander doel gebruik nie.

## RELEVANTE STOWWE:

Formulation components	CAS Numbers	Conc. (%)
Isoxaflutole	141112-29-0	75,00
Lignosulfonic acid, sodium salt, sulfomethylated	68512-34-5	>= 3,0 – <=10,0
Sodium diisopropyl-naphthalene sulphonate	1322-93-6	>= 3,0 – <=10,0

## GEBRUIKSBEPERKINGS:

1. Om skade aan opvolggewasse te voorkom moet die volgende wagperiodes gehandhaaf word tussen **Merlin** toediening en plant:  
**SUIKERRIET** ..... **GEEN**  
**MIELIES** ..... **6 MAANDE**  
**ALLE ANDER GEWASSE** ..... **12 MAANDE**  
**NOTA:** Bogenoemde wagperiodes geld slegs indien die korrekte hoeveelheid **Merlin** volgens grondsoort toegedien was en normale- of bo-gemiddelde reënval gedurende die seisoen, waarin **Merlin** toegedien is en daarna, voorgekom het. Toetsaanplanting word altyd aanbeveel.
2. Waar **Merlin** toegedien is op gronde wat uitsit tydens natwording en kraak of krummel tydens uitdroging soos bv. turfgronde, mag die **Merlin** veel langer aktief bly in die grond as wat deur bostaande wagperiodes aangedui word. Gevolglik moet **Merlin** nie op sodanige grond toegedien word indien daar beoog word om isoksaasool-gevoelige gewasse in die voorsienbare toekoms daarop te plant nie.
3. Vermoed dubbelbespuitings, bv., oorvlueing van spuitbane.
4. Moenie op klipperige grond gebruik nie.
5. Moenie op plantriet gebruik nie.
6. Moenie gebruik op grond wat minder as 10 % klei bevat nie.

## WEERSTANDSWAARSKUWING:

**Merlin** behoort aan die isoksaasool-groep van onkruidodders. Die metode van werking van hierdie groep is die inhibering van die 4-HPPD ensiem en as sulks word dit deur HRAC as 'n Groepkode F<sub>2</sub> onkruidodder geklassifiseer. Enige populasie van 'n spesifieke onkruid mag individue insluit wat 'n natuurlike weerstand teen **Merlin**, of enige ander Groepkode F<sub>2</sub> onkruidodder het. Indien hierdie onkruidodders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die onkruidpopulasie oorheers. Hierdie weerstandbiedende onkruid sal moontlik nie deur **Merlin** of enige ander Groepkode F<sub>2</sub> onkruidodder, beheer word nie.

Aangesien die voorkoms van weerstandbiedende onkruid moeilik is om te bepaal voor onkruidodertoediening plaasvind, is dit uiters noodsaaklik dat behandelde gebiede met gereelde intervalle ondersoek word om weerstand vroegetydig te identifiseer. Bayer (Edms) Bpk. sal nie verantwoordelikheid aanvaar vir enige gebrek aan prestasie in die geval van die opbou van weerstand in die onkruidpopulasie as gevolg van onvoldoende onkruidbestandheidsbestuur soos aangedui op die etiket nie.

Om weerstand teen onkruidodders te verjaag:

- Vermoed die eksklusiewe, herhaaldelike gebruik van onkruidodders in dieselfde onkruidoddergroepkode. Wissel af met, of gebruik tenkingsels van produkte in verskillende onkruidoddergroepkodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in onkruidbeheerprogramme.

Vir spesifieke inligting oor weerstandsbestuur, kontak u naaste Bayer CropScience verteenwoordiger.

**GEBRUIKSAANWYSINGS:** GEBRUIK SLEGS SOOS AANGEDUI**VERENIGBAARHEID:**

Vereenigbaarheidstudies is gedoen met **Merlin** in kombinasie met elk van EEN van die middels hieronder gelys (tensy anders aangedui op hierdie etiket):

AANGESIEN VARIASIES MAG VOORKOM TUSSEN FORMULASIES VAN PRODUKTE WAT DIESELFDE AKTIEWE BESTANDELE BEVAT, WORD DIE HANDELSNAME EN REGISTRASIENOMMERS VAN DIE GETOETSTE PRODUKTE HIERBY AANGEDUI. MOENIE **MERLIN** MET ENIGE ANDER PRODUKTE VERMENG NIE.

**Merlin** is vereenigbaar met **Bayer Diuron** (Reg. Nr. L4558), **Karmex DF** (Reg. Nr. L5507), **Gesapax 500 SC** (Reg. Nr. L2784), **Gramoxone** (L1174) en **Velpar DF** (L5432).

**MENG- EN TOEDIENINGSINSTRUKSIES:****GEBRUIK DIE SPUITMENGSEL BINNE 6 UUR NA VERMENGING**

Maak 'n mengsel vooraf met die aanbevole hoeveelheid **Merlin** en 'n paar liter skoon water in 'n aparte houër. Maak die spuitenk halfvol met water. Voeg die voorafgemengde mengsel by die spuitenk. Voeg dan die ander aanbevole onkruidodder by en vul die tenk verder met water. Hou die middel in die spuitenk voortdurend in suspensie deur roering. Aan die einde van die dag se bespuiting moet die spuitenk deeglik met water uitgespoel word. Vir optimale resultate moet toediening so gou moontlik na vermenging plaasvind. Kalibreer spuittoerusting noukeurig voor toediening. Gebruik waaier tipe spuitpunte om 'n eweredige bedekking te verseker. Dien toe op die grondoppervlak wat vry is van kluite. Indien droë weersomstandighede na toediening heers, mag diep ontkiemende onkruid ontkiem en ontwikkel. Onder hierdie toestande moet 'n geskikte na-opkom onkruidodder gebruik word. Vir algehele toediening gebruik 100-400 l water per ha.

**TOEDIENINGSTABEL:**

GEWAS	GROND KLEI PERSENTASIE	TOEDIENINGSHOEVEELHEID	OPMERKINGS
<b>SUIKERRIET Slegs oorstaanriet</b>  (Droeland en besproeing)	10- 24%	100 - 150 g <b>Merlin</b> * plus óf 2,0 l <b>Bayer Diuron</b> óf 2,0 kg <b>Karmex DF</b> óf 3,0-4,0 l <b>Gesapax 500 SC</b>	<u>Vir breëblaar- en grasonkruidbeheer in ligte tekstuur gronde.</u> Dien voor-opkom van die onkruid toe, wanneer die riet opkom ("spiking"), maar nie later as die 4-blaarstadium van die suikerriet nie.

GEWAS	GROND KLEI PERSENTASIE	TOEDIENINGSHOEVEELHEID	OPMERKINGS
<b>SUIKERRIET Slegs oorstaanriet</b>  (Droeland en besproeing)	25-36 %	150 - 200 g <b>Merlin</b> * plus óf 2,0 - 2,5 l <b>Bayer Diuron</b> óf 2,0 - 2,5 kg <b>Karmex DF</b> óf 3,0 - 4,0 l <b>Gesapax 500 SC</b>	<u>Vir breëblaar- en grasonkruidbeheer in medium tekstuur gronde.</u> Dien voor-opkom van die onkruid toe, wanneer die riet opkom ("spiking"), maar nie later as die 4-blaarstadium van die suikerriet nie.
	Bo 36 %	200 - 250 g <b>Merlin</b> * plus óf 2,0 - 2,5 l <b>Bayer Diuron</b> óf 2,0 - 2,5 kg <b>Karmex DF</b> óf 3,0 - 4,0 l <b>Gesapax 500 SC</b>	<u>Vir breëblaar- en grasonkruidbeheer in swaar tekstuur gronde.</u> Dien voor-opkom van die onkruid toe, wanneer die riet opkom ("spiking"), maar nie later as die 4-blaarstadium van die suikerriet nie.

\* Gebruik die hoër toedieningshoeveelheid op swaarder gronde in die kleipersentasie kategorie en/of waar groter onkruiddruk verwag word.

**Merlin** kan toegedien word in 'n tenkmengsel met **Gramoxone (L1174)** of **Velpar DF (L5432)** onder droëland toestande. Verwys na die **Gramoxone** n **Velpar** etikette vir volledige aanwysings.

**BREËBLAARONKRUIDE BEHEER:**

<i>Ageratum conyzoides</i>	indringer-Ageratum
<i>Amaranthus deflexus</i>	meerjarige misbredie (wat van saad groei)
<i>A. hybridus</i>	gewone misbredie
<i>A. spinosus</i>	doringmisbredie
<i>A. thunbergii</i>	rooimisbredie
<i>Apium leptophyllum</i>	wildeseldery



#### **BREËBLAARONKRUIDE BEHEER:**

<i>Bidens pilosa</i>	knapsekêrel
<i>Chenopodium album</i>	withondebossie
<i>C. carinatum</i>	groenhondebossie
<i>Conyza bonariensis</i>	kleinskraalhans
<i>C. sumatrensis (albida)</i>	vaalskraalhans
* <i>Datura ferox</i>	grootstinkblaar
* <i>D. stramonium</i>	stinkblaar
<i>Euphorbia hirta</i>	rooimelkkruid
* <i>Flaveria bidentis</i>	smeltersbossie
<i>Gnaphalium luteo-album</i>	roerkruid
<i>Gnaphalium pennsylvanicum</i>	Gnaphalium
<i>Hibiscus trionum</i>	terblansbossie
<i>Hypochoeris radicata</i>	harige skaapslaai
* <i>Parthenium hysterophorus</i>	Demoinabossie
<i>Portulaca oleracea</i>	porslein
<i>Richardia brasiliensis</i>	tropiese Richardia
<i>Schkuhria pinnata</i>	kleinkakiebos
* <i>Senecio madagascariensis</i>	gifbossie
<i>Sesamum tryphyllum</i>	wildesesam
<i>Sida cordifolia</i>	hartblaartaaiman
<i>Solanum nigrum</i>	nastergal
<i>Tagetes minuta</i>	kakiebos

#### **GRASONKRUIDE BEHEER:**

<i>Chloris virgata</i>	witpluim-Chloris
<i>Digitaria sanguinalis</i>	kruisvingergras
<i>D. ternata</i>	swartsaadvingergras
<i>Eleusine indica</i>	jongosgras
<i>Panicum maximum</i>	gewone buffelsgras
<i>Panicum schinzii</i>	soet buffelsgras
* <i>Paspalum dilatatum</i>	gewone Paspalum
* <i>Urochloa mosambicensis</i>	bosveldbeesgras

\* Laat stuwings van hierdie onkruid sal nie voldoende beheer word nie.

**NOTA:** **Merlin** beheer die bogenoemde onkruidspesies in die tenkmengsels soos aangedui. Ander onkruidspesies wat nie tydens die ontwikkelingsproewe met die middel voorgekom het nie, kan moontlik in 'n meerdere of mindere mate beheer word. Die registrasiehouer aanvaar egter geen aanspreeklikheid ten opsigte van ongelyste onkruid nie.

#### **NOTAS:**

1. Tenkmengsels wat vir lang periodes staan mag of vergeling van die suikerriet (indien op die blare gespuit) of verkorte residuele effektiwiteit, of beide, veroorsaak.
2. Tenkmengsels van **Merlin** en **Gesapax 500 SC** mag verhoogde mate van vergeling veroorsaak. Hierdie simptome is egter tydelik van aard en opbrengs sal nie noemenswaardig beïnvloed word nie.
3. Die hoër aanbevole toedieningshoeveelhede mag vergeling tot gevolg hê van die blaarrandte, wat van verbygaande aard is en behoort nie die opbrengs nadelig te beïnvloed nie.
4. Suikerriet wat onder enige vorm van stremming is sal meer geneig wees om vergeling van die blaarrandte te wys na **Merlin** toedienings. Hoe groter en langduriger die faktor wat die stremming veroorsaak, hoe langer sal die plant neem om die simptome te ontgroei.
5. Die gebruik van **Merlin** op pas bekalkte grond kan 'n hoë mate van gewasvergelings veroorsaak.
6. Indien **Merlin** met water vermeng word wat hoë vlakke van chloor bevat, kan die middel se effektiwiteit verminder word.
7. Moenie bevorderingsmiddels by die spuitmengsel voeg nie.

#### **BAYER (EDMS) BPK. ERKEN DIE VOLGENDE:**

Die handelsmerk **Gesapax**<sup>®</sup> is die eiendom van 'n Syngenta Groep Maatskappy.

Die handelsmerk **Gramoxone**<sup>®</sup> is die eiendom van 'n Syngenta Groep Maatskappy.

Die handelsmerk **Karmex**<sup>®</sup> is die eiendom van DuPont de Nemours International Societe Anonyme

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