



# SPRINGBOK 360 SL

Reg. No.: L 6719 Act /Wet No. 36 of/van 1947



**READ ATTACHED PACKAGED LEAFLET BEFORE USE  
AND  
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

<b>HRAC HERBICIDE GROUP CODE:</b>	<b>9</b>	<b>HRAC ONKRUIDDODERGROEP KODE:</b>
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A soluble concentrate non-selective foliar, systemic herbicide for the control of a wide range of annual and perennial grasses, broadleaf weeds and certain woody perennials as listed. Can also be used to control weeds in maize varieties containing the glyphosate resistant gene.

'n Oplosbare konsentraat nie-selektiewe, blaar toegediende sistemiese onkruidodder vir die beheer van verskeie eenjarige en meerjarige grasse, breëblaaronkruid asook sekere houtagtige onkruid soos aangedui. Kan ook gebruik word vir die beheer van onkruid in mielievariëteite wat die glifosaatbestandheids-geen bevat.



**DANGER**

## Hazard statements

May be harmful in contact with skin.  
Causes serious eye damage.  
Toxic to aquatic life.  
Toxic to aquatic life with long lasting effects.

## Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid release to the environment.

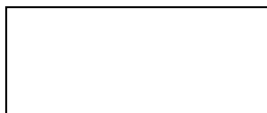
## ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

Glyphosate (glycine) / Glifosaat (glisien) ..... 360 g/l  
as glyphosate isopropylamine salt / as glifosaatisopropielamien-sout .....480 g/l

## Registration holder / Registrasiehouer:

**UPL South Africa (Pty) Ltd**  
Co. Reg. No./Mpy. Reg. Nr.: 2009/019713/07  
7 Sunbury Office Park,  
Off Douglas Saunders Drive, La Lucia Ridge,  
South Africa, 4019  
Tel: 031 514 5600

Batch No. ....  
Date of Manufacture.....  
Expiry date (< 2 years)....



.....Lot Nr.  
Datum van Vervaardiging  
( <2 jr)...Vervaldatum

**U.N. No. / VN Nr: 3082**  
**Emergency number**

**: Griffon Poison Information Centre: 082 4468946,**  
**Poisons Information Helpline: 0861 555 777,**  
**In case of Spillage: Spill Tech: 086 100 0366 / 083 253 6618**

## **WARNINGS**

H313: May be harmful in contact with skin.  
H318: Causes serious eye damage.  
H401: Toxic to aquatic life.  
H411: Toxic to aquatic life with long lasting effects.

**Pre-Harvest Interval (PHI)** - Allow 42 days between last application and harvest of green mealies and 24 days between last application and grazing of maize.

- Poisonous if swallowed.
- Avoid contact with skin or eyes since product is eye irritant and may cause skin irritation.
- **SPRINGBOK 360 SL** can be corrosive to zinc-lined spray tanks and other metal equipment. Thoroughly wash all spray equipment after use. Do not mix, store or apply **SPRINGBOK 360 SL** solutions in galvanised steel or unlined steel (except stainless steel) containers or spray tanks. **SPRINGBOK 360 SL** can react with such containers to produce hydrogen gas which may form a highly combustible and explosive gas mixture.
- Store away from food and feeds, fertilizers and other chemicals.
- Keep out of reach of children, uninformed persons and animals.

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

**Aerial application:** notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

**Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal 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 weed against 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**

P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of Children.  
P103: Read label before use.  
P302+P317: IF ON SKIN: Get medical help.  
P305+P351+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P317: Get medical help.  
P264: Wash hands thoroughly after handling. Do not touch eyes.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P391: Collect spillage.  
P501: Dispose of contents/container to authorized hazardous or special waste collection point in accordance with any local regulation.

- Do not inhale the spray mist.
- Wash yourself after use or accidental skin contact.
- Avoid contact with the spray as much as you can.
- Change and wash contaminated clothes.
- Avoid spray drift onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- Rinse the container **three times** with a volume of water equal to a minimum of 10 % of the container. Add the rinsing to the contents of the spray tank.
- Destroy empty container and do not use for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

## **RELEVANT SUBSTANCES**

Glyphosate-IPA salt	25 – 50%
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	10 – 20%

## **FIRST AID**

<b>First-aid measures general</b>	:	<ul style="list-style-type: none"> <li>• If medical advice is needed, have product container or label at hand. Never give anything by mouth to an unconscious person.</li> <li>• If you feel unwell, seek medical advice (show the label where possible).</li> </ul>
<b>First-aid measures after inhalation</b>	:	<ul style="list-style-type: none"> <li>• IF INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>• If breathing is difficult, give oxygen. If breathing stops, give artificial respiration.</li> <li>• In all cases of doubt, or when symptoms persist, seek medical attention. Allow affected person to breathe fresh air.</li> <li>• Allow the victim to rest.</li> </ul>
<b>First-aid measures after skin contact</b>	:	<ul style="list-style-type: none"> <li>• After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.</li> <li>• If skin irritation occurs: Get medical advice/attention.</li> <li>• Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.</li> </ul>
<b>First-aid measures after eye contact</b>	:	<ul style="list-style-type: none"> <li>• Rinse immediately with plenty of water, also under the eyelids.</li> <li>• Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>• If eye irritation persists: Get medical advice and attention.</li> <li>• Rinse immediately with plenty of water.</li> <li>• Obtain medical attention if pain, blinking or redness persists.</li> </ul>
<b>First-aid measures after ingestion</b>	:	<ul style="list-style-type: none"> <li>• If swallowed, rinse mouth with water (only if the person is conscious).</li> <li>• Do not induce vomiting.</li> <li>• Get immediate medical advice and attention. Rinse mouth.</li> <li>• Do NOT induce vomiting.</li> <li>• Obtain emergency medical attention.</li> </ul>

## **RESISTANCE WARNING**

**SPRINGBOK 360 SL** is a group code **9** herbicide (glycine). Any weed population may contain individual weeds naturally resistant to **SPRINGBOK 360 SL** and other group code **9** herbicides. Resistance of *Lolium rigidum*, *Conyza bonariensis* and *Plantago lanceolata* to the chemical family of Glycine has been observed in South Africa. If a Glycine treatment has been ineffective in the control of the above-mentioned weeds, do not re-treat with a herbicide from the same chemical group. Resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. Resistant weeds may not be controlled by **SPRINGBOK 360 SL** or any other group code **9** herbicide.

In order to delay herbicide resistance:

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

For more information on resistance management, contact the registration holder

## **USE RESTRICTION**

- When using **SPRINGBOK 360 SL** as a land preparation for transplanted tomatoes, tobacco or any other transplanted crop with green and soft stems, allow a minimum of 14 days between application and transplanting of seedlings.
- This product should only be used as a post emergent broadcast (over-the-top) application or as a directed spray on maize varieties which contains the glyphosate resistant gene.
- Maize and cotton hybrids or varieties that do not contain the glyphosate resistant gene will be severely injured or killed when sprayed with this product.
- Do not add foliant nutrients to **SPRINGBOK 360 SL**.

## **DIRECTIONS FOR USE: use only as indicated.**

1. only clean water in spray mixture.
2. Always ensure that spray equipment is clean, and correctly calibrated before spraying.
3. Use low spray pressure (100–200 kPa) to avoid spray drift.
4. **SPRINGBOK 360 SL** is actively absorbed through immature bark and leaves of most plants and trees. Contact with immature bark, such as in trees younger than three years, can result in serious localised or translocated damage. **THEREFORE CONTACT WITH LEAVES, GREEN OR IMMATURE BARK AND FRUIT OF DESIRED PLANTS, WHETHER DIRECT OR BY SPRAY DRIFT, MUST BE AVOIDED. ALWAYS MAKE SURE THAT ONLY UNDESIRE PLANTS ARE TREATED.** Do not spray onto pruned vines or fruit trees until wounds have sealed properly. **SPRINGBOK 360 SL** is a non-selective systemic herbicide and is only active when applied to the green foliage and bark of plants. The visible effect of **SPRINGBOK 360 SL** on treated foliage usually appears at 10–14 days after treatment but may vary according to weather conditions. **SPRINGBOK 360 SL** should be applied to actively growing weeds that are not dormant or under temperature or moisture stress. Rain or irrigation a few days prior to a **SPRINGBOK 360 SL** application ensures that weeds are actively growing, resulting in optimum efficacy. Rain or irrigation within 6 hours of application can reduce **SPRINGBOK 360 SL** efficacy. Do not spray on weed foliage covered with a layer of dust. In these situations apply after recent rain. **SPRINGBOK 360 SL** has NO pre-emergence activity, therefore repeat applications are necessary (when applied on its own) to control weeds germinating from seed. Ensure that target weeds are fully exposed to the **SPRINGBOK 360 SL** spray.
5. See also the section “**MAIZE VARIETIES CONTAINING THE GLYPHOSATE RESISTANT GENE**”.

## **Mixing instructions**

Half fill the spray tank with clean water and add the required quantity of **SPRINGBOK 360 SL**. Then fill the tank to the required volume with clean water, ensuring thorough agitation. When using tank mixes, the additional herbicide should be added after **SPRINGBOK 360 SL** and agitation must be continuous before and during spraying.

## Application

Ensure that the application equipment is clean and free from rust and dust. Remove sediments eg residues of WP pesticides from spray tanks before adding **SPRINGBOK 360 SL**. Avoid the use of hard or muddy water, or water with a high colloidal content derived from soils high in organic matter. Correctly calibrate all sprayers under field conditions prior to application. It is not necessary to spray to the point of run-off, but essential to ensure complete coverage of the target weed. **EVEN APPLICATION IS ESSENTIAL FOR GOOD RESULTS.**

**DUIKER** may be used to supplement **SPRINGBOK 360 SL** in the spray solution by replacing 1,0 l **SPRINGBOK 360 SL** with 2,0 l **DUIKER**. DO NOT SUBSTITUTE MORE THAN 50 % OF THE RECOMMENDED **SPRINGBOK 360 SL** RATE; eg. 4,0 l **SPRINGBOK 360 SL** = 3,0 l **SPRINGBOK 360 SL** + 2,0 l **DUIKER**.

## Ground application

**SPRINGBOK 360 SL** can be applied with conventional ground equipment (tractor mounted booms, knapsack etc). Optimum spray deposits are obtained with ground equipment calibrated to spray 30–600 l/ha with suitable nozzles to ensure adequate coverage. Where drift is a problem do not exceed 2 Bar. Use only the pressures recommended for specific nozzles to avoid drift. See also the section “**MAIZE VARIETIES CONTAINING THE GLYPHOSATE RESISTANT GENE**”.

## Aerial application

Aerial application of **SPRINGBOK 360 SL** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of South African National Standard 10118: The Aerial Application of Pesticides. Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- Volume: a spray mixture volume of 30 to 35 l 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.
- Droplet coverage: 30 to 40 droplets per cm<sup>2</sup> must be recovered at the target area.
- Droplet size: a droplet spectrum with a VMD of 300 to 350 microns is recommended. Limit the production of fine droplets less than 150 microns (high drift and evaporation potential) to a minimum.
- Flying height: maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8 °C.
- Stop spraying if the wind speed exceeds 15 km/h.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
  - 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 drifting of the suspended spray cloud away from the target field
- Ensure that the aerial spray operator knows exactly which fields to spray.

- Obtain an assurance from the aerial spray operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

### Application rates

**SPRINGBOK 360 SL** will control most emerged annual weeds germinating from seed in situations such as fallow land, pre-plant of crops, reduced or conservation tillage, perennial vine and tree crops, crops varieties with the glyphosate resistant gene and industrial areas. Apply the **SPRINGBOK 360 SL** dosage rate according to the weed growth stage. The higher dosage rates within the range should be used when the weeds are older and more established in the specific growth stage.

## 1 CONTROL OF PERENNIAL WEEDS

1.1 NOXIOUS WEEDS		DOSAGE RATE		REMARKS
BOTANICAL NAME	COMMON NAME	ℓ/ha	% Soln	
<i>Sesbania punicea</i>	red Sesbania	3,0	1,5	<p><b>Seedling plants less than 1 m high:</b> use 1,5 % solution.</p> <p><b>Tall shrubs:</b> slash, spray re-growth with 1,5–2,0 % solution at 1 m high.</p> <p><b>Apply in spring or summer.</b></p> <p><b>Large trees:</b> cut to 50 cm, allow new growth of at least 50 cm before application.</p> <p><b>Saplings:</b> apply directly to foliage.</p> <p><b>Summer application</b></p> <p>Applied to low cut stumps, cut 10 cm above ground level. Freshly cut stumps must be sprayed to the point of run-off. Spray must be directed to the cambium layer and exposed bark.</p> <p>Apply to foliar part of seedlings and plants up to 1 m in height.</p> <p>Apply in summer and autumn. Slash established plants and allow to regrow. Spray when regrowth is between 50 and 120 cm. Ensure complete coverage of foliage. Previously slashed multisystem plants may require a follow up treatment.</p>
<i>Solanum mauritianum</i>	bugweed	2,0	1,5 0,5	
<i>Acacia dealbata</i>	silver wattle		20,0	
<i>Mimosa pigra</i>	giant sensitive plant	6,0	3,0	
<i>Chromolaena odorata</i>	triffid weed	1,0		

1.2 GRASSES		DOSAGE RATE		REMARKS
BOTANICAL NAME	COMMON NAME	ℓ/ha	% Soln	
<i>Cynodon dactylon</i>	common couch	6,0		<p><b>Summer rainfall region.</b> Apply to active growth in autumn or summer. If re-growth occurs, spray with 2,5 % solution.</p> <p><b>Winter rainfall region.</b> As above in autumn.</p> <p>Apply to active growth in summer or autumn.</p> <p>Apply in summer at flower but before seed drop. If re-growth occurs, spray with 1,5 % solution.</p> <p>Apply in summer at flowering but before seed drop. If re-growth occurs, spray with 2 % solution or 4 ℓ/ha. Apply the higher rate in the winter rainfall region.</p> <p>Apply in summer to actively growing plants in the early growth stage. If regrowth occurs, spray with 1,5 % solution.</p> <p>Apply in summer to actively growing plants. If regrowth occurs, spray with 1,5 % solution.</p> <p>Apply to actively growing plants in autumn or summer. If regrowth occurs, spray with 1,5 % solution.</p> <p>Apply in summer or autumn. If regrowth occurs, spray with 1,5 % solution.</p> <p>Apply to actively growing plants in summer or autumn.</p>
		9,0		
<i>Eragrostis curvula</i>	weeping love grass	3,0	1,5	
<i>Paspalum dilatatum</i>	common Paspalum	6,0	3,0	
<i>Paspalum paspalodes</i>	couch Paspalum	8,0–9,0		
<i>Panicum maximum</i>	common buffalo grass	6,0	3,0	
<i>Pennisetum clandestinum</i>	kikuyu	4,0	1,5	
<i>Setaria megaphylla</i>	bush buffalo grass	6,0	3,0	
<i>Sorghum halepense</i>	Johnson grass	4,0	2,0	
<i>Sorghum verticilliflorum</i>	common wild-Sorghum	3,0	1,5	

1.3 SEDGES		DOSAGE RATE		REMARKS
BOTANICAL NAME	COMMON NAME	ℓ/ha	% Soln	
<i>Cyperus esculentus</i>	yellow nutsedge	6,0		Apply in summer at pre-flowering stage. If regrowth occurs, spray with 1,5 % solution or 3,0 ℓ/ha (best results in Feb/March).
<i>Cyperus rotundus</i>	purple nutsedge	6,0		

## **2 CONTROL OF ANNUAL WEEDS**

### **2.1 Broadleaf weeds**

The following broadleaf weeds will be controlled at the rates and growth stages as indicated below.

SPRINGBOK 360 SL ℓ/ha		
1,0–2,0	2,0	3,0
1–12 leaf	12 leaf to pre-bloom	Flowering
<i>Alternanthera pungens</i>	khaki bur weed	
<i>Amaranthus hybridus</i>	Cape pigweed	
<i>Amaranthus spinosus</i>	thorny pigweed	
<i>Amaranthus thunbergii</i>	red pigweed	
<i>Arctotis venusta</i>	Free State daisy	
<i>Argemone subfusiformis</i>	Mexican poppy	
<i>Bidens pilosa</i>	blackjack	
<i>Chenopodium album</i>	white goosefoot	
<i>Chenopodium ambrosioides</i>	American goosefoot	
<i>Chenopodium carinatum</i>	green goosefoot	
<i>Chenopodium murale</i>	nettle-leaved goosefoot	
<i>Cirsium arvense</i>	Canada thistle	
<i>Citrullus lanatus</i>	bitter apple	
<i>Conyza albida</i>	tall fleabane	
<i>Cucumis spp</i>	wild cucumber	
<i>Datura ferox</i>	large thorn apple	
<i>Datura stramonium</i>	thorn apple	
<i>Galinsoga parviflora</i>	gallant soldier	
<i>Gisekia pharnaceoides</i>	Gisekia	
<i>Gnaphalium subfalcatum</i>	cudweed	
<i>Lepidium africanum</i>	pepper cress	
<i>Pentzia grandiflora</i>	stinkweed	
<i>Physalis angulata</i>	wild gooseberry	
<i>Pseudognaphalium luteo-album</i>	Jersey cudweed	
<i>Richardia brasiliensis</i>	tropical Richardia	
<i>Spergula arvensis</i>	corn spurry	

## 2.2 Grasses

The following grasses will be controlled at the rates and growth stages as indicated below.

SPRINGBOK 360 SL ℓ/ha		
1,5–3,0		3,0
1 leaf to pre-bloom		Flowering
<i>Avena fatua</i>		common wild oats
<i>Avena spp</i>		wild oats
<i>Briza maxima</i>		quaking grass
<i>Bromus diandrus</i>		ripgut brome
<i>Ehrharta longifolia</i>		oat-seed grass
<i>Eleusine coracana</i>		goose grass
<i>Eragrostis curvula</i>		weeping love grass
<i>Hordeum murinum</i>		wild barley
<i>Lolium multiflorum</i>		Italian rye grass
<i>Lolium temulentum</i>		darnel
<i>Panicum schinzii</i>		sweet buffalo grass
<i>Poa annua</i>		winter grass
<i>Rhynchelytrum repens</i>		Natal red-top
<i>Secale cereale</i>		rye
<i>Sorghum bicolor</i>		wild grain-Sorghum
<i>Tragus racemosus</i>		large carrot-seed grass

## 2.3 Broadleaf weeds and grasses

SPRINGBOK 360 SL ℓ/ha		
1,5–2,0	2,0–3,0	3,0–4,0
1–12 leaf	12 leaf to pre-bloom	Flowering
<i>Arctotheca calendula</i>		Cape marigold
<i>Chamaesyce hirta</i>		red milkweed
<i>Chamaesyce inaequilatera</i>		smooth creeping milkweed
<i>Chloris virgata</i>		feathertop Chloris
<i>Commelina benghalensis</i>		wandering Jew
<i>Conyza canadensis</i>		Canadian fleabane
<i>Conyza albida</i>		tall fleabane
<i>Coronopus didymus</i>		swine cress
<i>Crotolaria sphaerocarpa</i>		mealie Crotolaria
<i>Emex australis</i>		spiny emex
<i>Fumaria muralis</i>		fumitory
<i>Hibiscus cannabinus</i>		kenaf
<i>Hibiscus trionum</i>		bladderweed
<i>Ipomoea purpurea</i>		common morning glory
<i>Paspalum urvillei</i> (seedlings)		tall Paspalum
<i>Phalaris minor</i>		little seeded canary grass
<i>Portulaca oleracea</i>		common purslane
<i>Raphanus raphanistrum</i>		wild radish
<i>Schkuhria pinnata</i>		dwarf marigold
<i>Senecio burchellii</i>		molteno-disease Senecio
<i>Sesamum triphyllum</i>		wild sesame
<i>Setaria pallide-fusca</i>		red bristle grass
<i>Setaria verticillata</i>		sticky bristle grass
<i>Sonchus oleraceus</i>		common sowthistle
<i>Tagetes minuta</i>		tall khaki weed

<i>Tribulus terrestris</i>	common dubbeltjie
<i>Veronica spp.</i>	speedwell
<i>Zea mays</i>	volunteer maize
<i>Triticum spp</i>	volunteer wheat

## 2.4 Broadleaf weeds and grasses

SPRINGBOK 360 SL ℓ/ha		
2,5–3,0	3,0–5,0	5,0–6,0
1–12 leaf	12 leaf to pre-bloom	Flowering
<i>Cleome gynandra</i> <i>Digitaria sanguinalis</i> <i>Echinochloa crus-galli</i> <i>Echium lycopsis</i> <i>Hypochoeris radicata</i> <i>Panicum maximum</i> <i>Paspalum urvillei</i> <i>Plantago lanceolata</i> <i>Polygonum aviculare</i> <i>Sida cordifolia</i> <i>Solanum nigrum</i> <i>Urochloa panicoides</i> <i>Verbena officinalis</i>	spider-wisp crab finger-grass barnyard grass Patterson's curse hairy wild lettuce common buffalo grass tall Paspalum narrow-leaved ribwort prostate knotweed heartleaf Sida nightshade garden Urochloa European Verbena	

## 2.5 Broadleaf weeds

SPRINGBOK 360 SL ℓ/ha		
1,5–6,0	6,0	6,0
1–12 leaf	12 leaf to pre-bloom	Flowering
<i>Erodium moschatum</i>	musk heron's bill	

## 2.6 Broadleaf weeds

SPRINGBOK 360 SL ℓ/ha		
6,0	6,0	6,0
1–12 leaf	12 leaf to pre-bloom	Flowering
<i>Malva parviflora</i> <i>Oenothera stricta</i>	small mallow evening primrose	

## 2.7 Broadleaf weeds

SPRINGBOK 360 SL ℓ/ha		
5,0–6,0	5,0–6,0	5,0–6,0
1–12 leaf	12 leaf to pre-bloom	Flowering
<i>Rumex angiocarpus</i>	sheep sorrel	

## 2.8 Broadleaf weeds

SPRINGBOK 360 SL ℓ/ha		
4,0	8,0	3,0 % Solution:
1–12 leaf	12 leaf to pre-bloom	Flowering
<i>Acacia saligna</i> Port Jackson willow		

### Notes

For *Malva parviflora* (small mallow) and *Oenothera stricta* (evening primrose, smaller than 12 leaf stage) control, spray **SPRINGBOK 360 SL** at 3,0 ℓ/ha in combination with the recommended simazine SC rate for the soil type.

For problem *Erodium moschatum* (musk heron's bill, low growing type) control in grapevines and deciduous fruit apply 2,0 ℓ/ha **SPRINGBOK 360 SL** prior to budburst. Regrowth must be sprayed 4 to 6 weeks later with Paraquat plus Simazine SC. Refer to Paraquat and Simazine SC labels for rates and details.

## 3 SPECIFIC RECOMMENDATIONS

CROP	REMARKS
3.1 Almonds, aloes, apples, apricots, avocados, bananas, blackberry, cherries, citrus, coffee, granadilla, guava, hops, kiwi fruit, litchies, macadamia nuts, mangoes, nectarines, olives, pawpaw, peaches, pears, pecan nuts, pineapples, plums, cactus pear, prunes, quince, tea.	1. See weed tables for dosage rates of <b>SPRINGBOK 360 SL</b> . 2. Protect young trees with green bark from direct spray.
3.2 Vines and fruit trees.	Apply before bud burst to vines older than 2 years. Younger vines with green bark should be shielded. Spray should be directed onto weeds. <b>Do not spray onto pruned vines or fruit trees until wounds have sealed properly.</b>  <b>Crop cover destruction in grapevines</b> Apply <b>SPRINGBOK 360 SL</b> at 1,5–3,0 ℓ/ha. Apply 10 days or more after pruning and before bud burst.
3.3 Sisal	Applications can be made to nursery and mature plants.
3.4 Arable land	Use <b>SPRINGBOK 360 SL</b> after harvesting of previous crop. Do not disturb target plants before 6 hours after application (before planting of crops) and prior to emergence of new crop.

#### 4 FORESTRY USAGE

SITUATION	WEED SPECIES	DOSAGE RATE		REMARKS
		ℓ/ha	% SOLUTION (ℓ SPRINGBOK 360 SL IN 100 ℓ WATER)	
<b>MAINTENANCE IN ESTABLISHED FORESTS</b>	<i>Acacia mearnsii</i> (Black wattle)	3	1,5	Apply to young trees up to 1 m high.
	<i>Solanum mauritianum</i> (Bugweed)	2	1,5  0,5	<b>Large trees:</b> cut to 50 cm, allow new growth of at least 50 cm before application. <b>Saplings:</b> apply directly to foliage.
	<i>Rubus</i> spp (American bramble)	6	3,0	Slash rank growth in winter. Apply when new growth is more than 0,5 m high. If regrowth occurs, spray with 1,5 % solution.
<b>1. Firebreaks</b> Firebreak pre- paration (tracer belts or total area)  <b>2. Band pre- paration for tree seedlings</b> Situations suitable for such treatments include: a) Virgin veld b) Clear felled forests	In both situations (1 and 2) weed population would include peren- nials and an- nuals. Refer to list of some of the weeds controlled	4	2	A minimum of 200 ℓ spray mixture/ha must be applied when using the 2 % solution.  A follow-up treatment may be necessary to control some hardy perennials using a 2 % solution on a spot spray basis.

SITUATION	DOSAGE	REMARKS
<i>Eucalyptus grandis</i> (bluegum) coppice regrowth prevention	5 % solution	<b>Single stem stumps.</b> Apply 50 ml solution to a clean cambium area immediately after felling.
	7 % solution	<b>Multistem stumps.</b> Apply 100 ml solution to a clean, fully exposed cambium layer immediately after felling. If regrowth occurs, spray with 2 % solution.

## 5 SUGARCANE LAST RATOON ERADICATION

CROP	DOSAGE	REMARKS
Minimum tillage.	8,0–10,0 l/ha	Allow regrowth after final harvest to grow up to 0.45–1,0 m in height (tillering stage), then apply the spray mixture in 100–400 l/ha as a post emergence spray on the leaves of the tillers.
Combination tillage.	4,0 – 8,0 l/ha.	Use the higher rate on fertile soils where regrowth might be a problem. Spray the <b>SPRINGBOK 360 SL</b> solution on regrowth of the sugarcane when the ratoon cane is about 0,35–1 m in height. Allow 5–10 days application before the cane stool is sheared at a depth of 10–15 cm below soil surface with a blade shear implement or similar implement.
Spot eradication.	10 % solution	This treatment will also control certain grasses and broadleaf weeds. Apply spray solution directly on cane stools.
Pre-plant land preparation.	1,0 – 3,0 l/ha	<b>Annual weeds:</b> apply to active growing annual weeds. <b>Perennial weeds:</b> refer to tables under part 1 for details.
Spot spraying around sugarcane field.	2 % solution.	Direct sprays to active growing plants around field in problem areas to be cleaned.

## 6. MAIZE VARIETIES CONTAINING THE GLYPHOSATE RESISTANT GENE

The use of **SPRINGBOK 360 SL** on maize varieties containing the glyphosate resistant gene in accordance with the following label directions is expected to result in the normal growth of these crops. **Do not use SPRINGBOK 360 SL on maize varieties that do not contain the glyphosate resistant gene since this will result in the severe injury and death of these crops.**

The spray mixture must always contain at least 1.5 % **SPRINGBOK 360 SL**. When necessary the water volume must be adjusted to achieve 1.5 % spray solution. Apply in a maximum water volume of 125 l water/ha. Avoid spraying to the point of run-off from the target leaf surfaces. This should not be a concern at volumes of 100 to 125 l/ha. Use low pressures of 100–150 kPa with appropriate nozzles (eg flat fan or twin jet nozzles) to deliver the required water volume and dosage rate per hectare.

## Application information

CROP	APPLICATION	REMARKS
Maize	<p><b>Overall application.</b> Apply from ground cracking stage up to the V8 stage, when the first plants in a field have 8 leaves with closed collars around the main stem (the actual number of leaves may be more). Application after this stage could result in delayed maturity and/or yield loss. Only apply if the passing of the spray equipment will not cause mechanical damage to the crop.</p> <p><b>Directed application.</b> Apply after the V8 stage where row spacing permits the passage of the application equipment without causing mechanical damage to the crop.</p>	<p>Where sequential applications are necessary the second application should not occur within 10 days of the first application. If the maize is beyond the V8 stage a directed application will be necessary.</p> <p>Directed applications can be made after the V8 stage where the row spacing permits the passage of the application equipment without causing mechanical damage to the crop. Row spacings of 150 cm and 210 cm is recommended for conventional tractor mounted spray rigs.</p>

## Dosage rates

WEEDS	DOSAGE (ℓ/ha)	REMARKS
Annual grasses and broadleaf weeds	2,0	Apply before weeds are 100 mm high.
Annual grasses and broadleaf weeds	2,5	Apply when weeds are between 100 and 200 mm high.
<i>Commelina benghalensis</i> (wandering jew)	2,5	Apply at the three leaf stage followed by a second application of 2,5 ℓ/ha 10–20 days later.
<i>Ipomoea purpurea</i> (morning glory)	2,5	Apply at the three to five leaf stage followed by a second application of 2,5 ℓ/ha 10–20 days later.
<i>Portulaca oleracea</i> (common purslane)	2,5	Apply before flowering.
<i>Cyperus esculentis</i> (yellow nutsedge)	2,5	Apply before plants are 100 mm high.
<i>Cyperus esculentis</i> (yellow nutsedge)	2,5	Apply at the three to four leaf stage followed by a second application of 2,5 ℓ/ha 10–20 days later.

## Notes on the use with other herbicides and tank mixes

When other herbicides are used as pre-plant, pre-plant incorporated, pre-emergence and post-emergence treatments in maize varieties with the glyphosate resistant gene, followed by **SPRINGBOK 360 SL** applications, the recommendations on the labels of these products must be followed.

In maize varieties with the glyphosate resistant gene **SPRINGBOK 360 SL** may also be tank mixed with **LION** (L6622) or **ELAND** (L6750) for pre-emergent applications or with **CROCODILE** (L6620) or **ELAND** (L6750) for post-emergence overall (before V8 stage) and directed (after V8 stage) applications. Follow the label recommendations of these herbicides. **Do not mix SPRINGBOK 360 SL and atrazine containing herbicides.**