Glyphos 360 SL

South Africa Reg. No: L 10134 Act/Wet No. 36 of/van 1947

GLYPHOS 360 SL is a non-selective post-emergence herbicide solution for the control of annual and perennial weeds as indicated on the label.

ACTIVE INGREDIENT Glyphosate (glycine) 360 g a.e./ℓ (glyphosate isopropylamine salt 480 g/ℓ



WARNING

HAZARD STATEMENTS: Harmful if swallowed | Causes serious eye irritation May be harmful if inhaled | Very toxic to aquatic life with long lasting effects.

GROUP

PRECAUTIONARY STATEMENTS: Obtain special instruction before use Do not handle until all safety precautions have been read and understood Avoid breathing mist, vapours and spray | Use only outdoors or in a well-ventilated area | Avoid release into the environment.

Registration holder: Green Island Investments (Pty) Ltd. Co. Reg. No.: 2013/043963/07 P.O. Box 1822, Heidelberg 1438, South Africa Tel: 078 737 9236

24 HR EMERGENCY NUMBERS

Griffon Poison Information Centre: +27 82 446 8946 24 Hr Transport / Spill emergency no: (Hazcall24) +27 86 044 4411 (Typhoon Plant Protection)

Expiry Date: Batch No: Date of Manufacture: U.N. No. 3082 Distributed by: Typhoon Plant Protection (Pty) Ltd. Co. Reg. No.: 1998/006156/07, C/O Farm Vlakfontein Corner of the R23 Benoni Road & R550 Nigel Road Brakpan District, Heidelberg 1438, Gauteng, South Africa Tel: 078 737 9236

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Net Volume:

HERBICIDE



WARNINGS:

Withholding periods:

Allow the following number of days between the last application and harvest or grazing:				
Maize (Grazing)	28 days			
Maize (Green mealies)	42 days			

WARNINGS:

HAZARD STATEMENTS:

- · Harmful if swallowed.
- Causes serious eye irritation.
- May be harmful if inhaled.
- · Very toxic to aquatic life with long lasting effects.
- Handle product with caution.
- Irritating to eyes and skin.
- · Harmful when swallowed.
- Do not mix, store or apply GLYPHOS 360 SL solutions in galvanised steel or unlined steel (except stainless steel) containers or spray tanks, as a reaction will cause hydrogen gas to form, which is highly combustible.
- Store in a cool, dry, well-ventilated place.
- Store away from food, feeds, seed, fertilizers and other agricultural chemicals.
- · Keep out of reach of children, uninformed persons and animals.
- · Re-entry: 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.

NOTE: GLYPHOS 360 SL is a highly active herbicide, that in small quantities, when used incorrectly can cause serious damage to crop seedlings, deciduous fruit trees and grape vines during the budding and early season growth stages. Under the following conditions it can cause serious damage as far as 3 to 5 km from the nearest spray path of the aircraft: Cloudy weather with relative humidity above 80 % and low air movement of less than 5 km per hour. When such conditions prevail, aerial application should **NOT** be carried out where crop seedlings, deciduous fruit trees and grape vines in budding or early development stages are present within 5 km of the nearest spray path of the aircraft.

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:

PRECAUTIONARY STATEMENTS:

- Avoid breathing mist, vapours and spray.
- · Wash hands and face thoroughly after handling.
- · Wash hands thoroughly after handling. Do not touch eyes.
- · Do not eat, drink or smoke when using this product.
- · Use only outdoors or in a well-ventilated area.
- Avoid release into the environment.
- · Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
- In case of inadequate ventilation wear respiratory protection.
- IF SWALLOWED: Immediately call a POISON CENTER.
- IF SWALLOWED: Get emergency medical help immediately.
- IF ON SKIN: Wash with plenty of water and non-abrasive soap.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER.
- · Collect spillage.
- Store in a well-ventilated place. Keep container tightly closed.
- · Store locked up.
- Dispose of content/container to suitable landfill in accordance with local regulations.
- Direct or spray drift contact by GLYPHOS 360 SL onto leaves and/or immature bark of desired plants can result in serious localised or translocated damage.
- Clean application equipment after use and do not dispose of wash water where it can contaminate other crops, grazing, boreholes, rivers or dams.
- TRIPLE RINSE empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.

Related ingredients:

Substance name (ILIPAC)	CAS - No.	Concentration %
Substance name (ior Ac)	EC - No.	By weight
Glyphosate %	1071-83-6	36%
Isopropyl Amine	75-31-0	10-15%

SYMPTOMS OF HUMAN POISONING:

Acute toxicity to this herbicide is expected to be low and no adverse effects from exposure have been reported. Skin contact, ingestion and inhalation are likely routes of exposure.

FIRST AID TREATMENT:

Inhalation: Remove source of contamination or move patient to fresh air. Keep patient under observation and obtain medical attention if necessary.

Skin contact: If irritation occurs, remove contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap.

If irritation persists, obtain medical assistance.

Eye contact: Immediately flush the contaminated eyes with gently flowing clean water for 20 minutes, holding the eyelid(s) open until no evidence of chemical remains. If irritation persists, obtain medical assistance. **Ingestion:** Have patient rinse mouth thoroughly with water. **Do not** induce vomiting. In severe cases, obtain medical advice immediately.

RESISTANCE WARNING:

For resistance management, **GLYPHOS 360 SL** is a **Group code G herbicide**. Any weed population may contain individual weeds naturally resistant to **GLYPHOS 360 SL** and other **Group code G herbicides**. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **GLYPHOS 360 SL** or any other **Group code G 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.

USE RESTRICTION:

- When using GLYPHOS 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 GLYPHOS 360 SL.

DIRECTIONS FOR USE: Use only as directed.

- I. Use only clean water in spray mixture.
- II. Always ensure that spray equipment is clean, and correctly calibrated before spraying.
- III. Use low spray pressure (100-200 kPa) to avoid spray drift.
- IV. GLYPHOS 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 UNDESIRED PLANTS ARE TREATED. Do not spray onto pruned vines or fruit trees until wounds have sealed properly. GLYPHOS 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 GLYPHOS 360 SL on treated foliage usually appears at 10–14 days after treatment but may vary according to weather conditions. GLYPHOS 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 GLYPHOS 360 SL application ensures that weeds are actively growing, resulting in optimum efficacy. Rain or irrigation within 6 hours of application can reduce GLYPHOS 360 SL has NO preemergence 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 GLYPHOS 360 SL has prior.
- V. See also the section "MAIZE VARIETIES CONTAINING THE GLYPHOSATE RESISTANT GENE".

MIXING INSTRUCTIONS:

Half-fill the spray tHalf fill the spray tank with clean water and add the required quantity of **GLYPHOS 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 **GLYPHOS 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 e.g. residues of WP pesticides from spray tanks before adding GLYPHOS 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.**

Ground application:

GLYPHOS 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 **GLYPHOS 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 cm² 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:
 - o 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:

GLYPHOS 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 **GLYPHOS 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 NOXIOL	IS WEEDS	DOS	AGE RATE	
BOTANICAL NAME	COMMON NAME	ℓ/ha	% Soln	REMARKS
Sesbania punicea	red Sesbania	3,0	1,5	Seedling plants less than 1 m high: use 1,5 % solution. Tall shrubs: slash, spray re-growth with 1,5–2,0 % solution at 1 m high.
Solanum mauritianum	bugweed	2,0	1,5 0,5	Apply in spring or summer. Large trees: cut to 50 cm, allow new growth of at least 50 cm before application. Saplings: apply directly to foliage.
Acacia dealbata	silver wattle		20,0	Summer application. Applied to low cut stumps, cut 10 cm obove 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.
Mimosa pigra	giant sensitive plant	6,0	3,0	Apply to foliar part of seedlings and plants up to 1 m in height.
Chromolaena odorata	triffid weed	1,0	1,0	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 foilage. Previously slashed multisystem plants may require a follow up treatment.

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

1.3 SE	DOSAGE RATE		REMARKS	
BOTANICAL NAME	COMMON NAME	ℓ/ha	% Soln	nemanko
Cyperus esculentus Cyperus rotundus	yellow nutsedge purple nutsedge	6,0 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).

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.

GLYPHOS 360 SL ℓ/ha					
1,0–2,0 2			,0		3,0
1–12 leaf		12 leaf to	pre-bloom		Flowering
Alternanthera pungens	khaki bu	r weed	Conyza albida		tall fleabane
Amaranthus hybridus	Cape pig	weed	Cucumis spp		wild cucumber
Amaranthus spinosus	thorny pi	gweed	Datura ferox		large thorn apple
Amaranthus thunbergii	red pigweed		Datura stramoniu	т	thorn apple
Arctotis venusta	Free State daisy		Galinsoga parviflora		gallant soldier
Argemone subfusiformis	Mexican poppy		Gisekia pharnaceoides		Gisekia
Bidens pilosa	blackjack		Gnaphalium subfalcatum		cudweed
Chenopodium album	white goosefoot		Lepidium africanu	ım	pepper cress
Chenopodium ambrosioides	America	n goosefoot	Pentzia grandiflor	a	stinkweed
Chenopodium carinatum	green goosefoot		Physalis angulata		wild gooseberry
Chenopodium murale	nettle-leaved goosefoot		Pseudognaphaliu album	m luteo-	Jersey cudweed
Cirsium arvense	Canada t	histle	Richardia brasilie	nsis	tropical Richardia
Citrullus lanatus	bitter ap	ple	Spergula arvensis	3	corn spurry

2.2. Grasses

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

GLYPHOS 360 SL ℓ/ha					
1,5–3,0				3,0	
1 leaf to pre-bloom			Flo		Flowering
Avena fatua	common	wild oats	Lolium multiflorui	m	Italian rye grass
Avena spp	wild oats		Lolium temulentum		darnel
Briza maxima	quaking grass		Panicum schinzii		sweet buffalo grass
Bromus diandrus ripgut brome		Poa annua		winter grass	
Ehrharta longifolia	oat-seed grass		Rhynchelytrum re	pens	Natal red-top
Eleusine coracana	goose grass		Secale cereale		rye
Eragrostis curvula	weeping love grass		Sorghum bicolor		wild grain-Sorghum
Hordeum murinum	wild barl	еу	Tragus racemosu	S	large carrot-seed grass

2.3. Broadleaf weeds and grasses

GLYPHOS 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
Arctotheca calendula	Cape ma	rigold	Phalaris minor		little seeded canary grass
Chamaesyce hirta	red milkw	/eed	Portulaca olerace	а	common purslane
Chamaesyce inaequilatera	smooth c	reeping milkweed	Raphanus raphar	nistrum	wild radish
Chloris virgata	featherto	p Chloris	Schkuhria pinnat	а	dwarf marigold
Commelina benghalensis	wandering Jew		Senecio burchellii		molteno-disease Senecio
Conyza canadensis	Canadian fleabane		Sesamum triphyllum		wild sesame
Conyza albida	tall fleabane		Setaria pallide-fusca		red bristle grass
Coronopus didymus	swine cress		Setaria verticillat	а	sticky bristle grass
Crotolaria sphaerocarpa	mealie Crotolaria		Sonchus oleraceu	IS	common sowthistle
Emex australis	spiny em	ex	Tagetes minuta		tall khaki weed
Fumaria muralis	fumitory		Tribulus terrestris		common dubbeltjie
Hibiscus cannabinus	kenaf		Veronica spp.		Veronica
Hibiscus trionum	bladderweed		Zea mays		volunteer maize
Ipomoea purpurea	common morning glory		Triticum spp.		volunteer wheat
Paspalum urvillei (seedlings)	tall Paspa	alum			10

2.4. Broadleaf weeds and grasses

GLYPHOS 360 SL ℓ/ha					
2,5–3,0 3,0			0–5,0		5,0–6,0
1–12 leaf 12 leaf to		pre-bloom Flow		Flowering	
Cleome gynandra	spider-w	isp	Plantago lanceola	ata	narrow-leaved ribwort
Digitaria sanguinalis	crab fing	er-grass	Polygonum avicu	lare	prostate knotweed
Echinochloa crus-galli	barnyard	l grass	Sida cordifolia		heartleaf Sida
Echium lycopsis	Patterso	n's curse	Solanum nigrum		nightshade
Hypochoeris radicata	hairy wil	d lettuce	Urochloa panicoi	des	garden Urochloa
Panicum maximum	common	buffalo grass	Verbena officinal	is	European Verbena
Paspalum urvillei	tall Pasp	alum			

2.5. Broadleaf weeds

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

2.6. Broadleaf weeds

GLYPHOS 360 SL ℓ/ha					
6,0 6,0 6,0					
1–12 leaf 12 leaf			pre-bloom	Flowering	
Malva parviflora	small ma	allow	Oenothera stricta	evening primrose	

2.7. Broadleaf weeds

GLYPHOS 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		
Rumex angiocarpus sheep sorrel				

2.8. Broadleaf weeds

GLYPHOS 360 SL ℓ/ha					
4,0	8,0 3,0 % Solution:				
1–12 leaf	12 leaf to pre-bloom	Flowering			
Analis and immediate a second se					

Acacia saligna	Port Jackson willow
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Notes

For *Malva parviflora* (small mallow) and Oenothera stricta (evening primrose, smaller than 12 leaf stage) control, spray **GLYPHOS 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 **GLYPHOS 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

MAIZE VARIETIES CONTAINING THE GLYPHOSATE RESISTANT GENE

The use of **GLYPHOS 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 GLYPHOS 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 % GLYPHOS 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 (e.g. flat fan or twin jet nozzles) to deliver the required water volume and dosage rate per hectare. prevent interference with weed control.

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 and soybean varieties with the glyphosate resistant gene, followed **GLYPHOS 360 SL** applications, the recommendations on the labels of these products must be followed.

Application information

CROP	APPLICATION	REMARKS
3.1 Maize	Overall application. 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.	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.
	Directed application. Apply after the V8 stage where row spacing permits the passage of the application equipment without causing mechanical damage to the crop.	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.

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.
Commelina benghalensis (wandering jew)	2,5	Apply at the three leaf stage followed by a second application of 2,5 ℓ/ha 10–20 days later.
Ipomoea purpurea (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.
Portulaca oleracea (common purslane)	2,5	Apply before flowering.
Cyperus esculentis (yellow nutsedge)	2,5	Apply before plants are 100 mm high.
Cyperus esculentis (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.

4. SPECIFIC RECOMMENDATIONS

	REMARKS
4.1 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.	 See weed tables for dosage rates of GLYPHOS 360 SL. Protect young trees with green bark from direct spray.
4.2 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. Do not spray onto pruned vines or fruit trees until wounds have sealed properly.
	Crop cover destruction in grapevines Apply GLYPHOS 360 SL at 1,5–3,0 ℓ/ha. Apply 10 days or more after pruning and before bud burst.
4.3 Sisal.	Applications can be made to nursery and mature plants.
4.4 Arable land.	Use GLYPHOS 360 SL 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.

5. FORESTRY USAGE

		DOSAGE RATE			
SITUATION	WEED SPECIES	ℓ/ha	% SOLUTION (ℓ GLYPHOS 360 SL IN 100 ℓ WATER)	REMARKS	
MAINTENANCE IN ESTABLISHED FORESTS	<i>Acacia mearnsii</i> (Black wattle)	3	1,5	Apply to young trees up to 1 m high.	
	<i>Solanum</i> <i>mauritianum</i> (Bugweed)	2	1,5 0,5	Large trees: cut to 50 cm, allow new growth of at least 50 cm before application. Saplings: apply directly to foliage.	
	<i>Rubus spp</i> (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.	
 Firebreaks Firebreak pre- paration (tracer belts or total area). Band pre- paration for tree seedlings Situations suitable for such treatments include: a) Virgin veld b) Clear felled forests. 	In both situations (1 and 2) weed population would include perennials and annuals. 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	5 % solution.	Single stem stumps. Apply 50 ml solution to a clean cambium area immediately after felling.
regrowth prevention.	7 % solution.	Multistem stumps. Apply 100 m ℓ solution to a clean, fully exposed cambium layer immediately after felling. If regrowth occurs, spray with 2 % solution.

6. 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 GLYPHOS 360 SL 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.	Annual weeds: apply to active growing annual weeds. Perrenial weeds: 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.