

Roundup[®] TURBO HERBICIDE



SEE ENCLOSED PAMPHLET FOR FULL PARTICULARS
BEFORE USING THIS PRODUCT PLEASE READ THE LABEL CAREFULLY

Reg. No. L7166 (Act No. 36 of 1947)
Namibian Registration No. N-AR 0638
Botswana Reg. No. W130359 (Act. No. 18 of 1999)

A water soluble concentrate non-selective post-emergence herbicide containing TransSorb[®] surfactant for the control of annual and perennial weeds in agricultural, non-crop, conservation and industrial sites.

SIEN INGESLOTE PAMFLET VIR VOLLEDIGE BESONDERHEDE

Reg. Nr. L7166 (Wet Nr. 36 van 1947)
Namibiese Registrasie Nr. N-AR 0638

'n Nie-selektiewe na-opkoms wateroplosbare onkruidodder met TransSorb[®] benatter vir die beheer van een- en meerjarige onkruid in landbou, onbeboude, bewaringsgebiede en nywerheidsgebiede.

GROUP / GROEP **G** HERBICIDE / ONKRUIDDODER



WARNING

HAZARD STATEMENTS:

Causes serious eye irritation.

PRECAUTIONARY STATEMENTS:

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash hands thoroughly after handling.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Active ingredient:

Glyphosate (glycine)..... 450 g/l
(contains 551 g potassium salt of glyphosate)

Aktiewe bestanddeel:

Gilfosaat (glisien)..... 450 g/l
(bevat 551 g kaliumsout van gilfosaat)

Contents **20 l** Inhoud

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. No. / Nr. (OFFICE HOURS) / (KANTOORURE): +27 (11) 921 5911

IN CASE OF POISONING PLEASE PHONE / IN GEVAL VAN VERGIFTIGING SKAKEL ASSEBLIEF: 0861 555 777

Global Incident Response Hotline: +1 (760) 476-3964 (Company 3E for Bayer)

Roundup[®] is a registered trademark of 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



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WARNINGS:

HAZARD STATEMENTS:

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Handle with care.

Do not mix, store or apply **ROUNDUP TURBO** solutions in galvanised steel or unlined steel (except stainless steel) containers or spray tanks as a reaction will produce hydrogen gas which is highly combustible.

AERIAL APPLICATION: Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings.

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 field until spray deposit has dried unless wearing appropriate protective clothing.

ALTHOUGH THIS HERBICIDE 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:

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- Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- Wash hands thoroughly after handling.
- Wear protective gloves/ protective clothing/ eye protection/ face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/ attention.

Do not smoke, eat or drink while using, or before washing and change of clothing.

Prevent spray drift and/or contamination onto susceptible or edible crops, grazing or any other areas not under treatment as this may cause serious crop damage.

Direct or spray drift contact by **ROUNDUP TURBO** onto leaves and/or immature bark of desired plants can result in serious localised or translocated damage.

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.

Recycle or dispose of in an approved landfill.

RELEVANT SUBSTANCES:

Formulation component	CAS Number	Conc. (%)
Potassium salt of glyphosate	70901-12-1	42.0
Fatty alkyl ether alkyl amine ethoxylate	68478-96-6	> 1 – < 10

RESISTANCE WARNING:

For resistance management, **ROUNDUP TURBO** is a group code G herbicide. Any weed population may contain individuals naturally resistant to **ROUNDUP TURBO** 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 **ROUNDUP TURBO** or any other group code G 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

- **ROUNDUP TURBO** symptoms may become visible from 5 days after spraying.
- **ROUNDUP TURBO** must be applied to the green leaves and stems of the target weeds. Ensure that there is an even droplet distribution on all leaves and stems of the target plants.
- It is not necessary to spray weeds to the point of run-off.
- Do not spray **ROUNDUP TURBO** when weeds are wet, suffering from drought or waterlogging stress, dormant, covered in a layer of dust or suffering from frost damage.
- Rain or irrigation within 2 hours after application can reduce the efficacy of **ROUNDUP TURBO**.
- Any weed re-growth should be spot sprayed before it becomes well developed.
- Pre-plant application of **ROUNDUP TURBO** on sandy soils (less than 10 % clay) with low organic matter and low microbial activity, should take place at least 14 days before planting any trans- plants or seedlings.
- Do not exceed the recommended dosage.
- The use of a high quality ammonium sulfate source, such as Velocity-Glifo or ATP Amsul 50, is recommended at a rate of 2 % added to the spray water before adding **ROUNDUP TURBO**.

Spray solution for hand held sprayers and spot- spraying.

Volume	Amount of ROUNDUP TURBO				
	1,2 %	1,5 %	2,0 %	3,0 %	4,0 %
5 ℓ	60 ml	75 ml	100 ml	150 ml	200 ml
10 ℓ	120 ml	150 ml	200 ml	300 ml	400 ml
20 ℓ	240 ml	300 ml	400 ml	600 ml	800 ml
50 ℓ	600 ml	750 ml	1000 ml	1500 ml	2000 ml
100 ℓ	1200 ml	1500 ml	2000 ml	3000 ml	4000 ml

For use in knapsack sprayers, it is suggested that the recommended amount of this product be mixed with water in a large container. Fill sprayer with the mixed solution.

A minimum of 1,2 % **ROUNDUP TURBO** solution in the total spray volume must be adhered to. Adjust water volume to achieve 1,2 % spray solution if necessary (i.e. 1,2 ℓ **ROUNDUP TURBO** in 98,8 ℓ water). For low water volumes including "CDA" and "ULV" applicators, always use the recommended liter per hectare dosage rate as per weed specie table. Do not exceed 40 % spray solution.

COMPATIBILITY:

When mixing with other agricultural remedies, adhere to all the label recommendations.

ROUNDUP TURBO can be mixed with **Guardian** and **Hamess Xtra** to provide residual control, and 2,4-D amine and MCPA (potassium salt) to improve the control of difficult broadleaf weeds and volunteer **Roundup Ready** cotton and soya beans. Refer to these separate labels. When mixing with other agricultural remedies, it is recommended to make a slurry with ammonium sulphate and add it to the spray water (2 kg or 2 ℓ per 100 ℓ spray water) before adding **ROUNDUP TURBO**. Add the tank mix product last.

When spraying with alkaline or hard water, it is recommended to add ammonium sulphate as above or add a buffer, such as Bladbuff 5, to the spray water before adding the required amount of **ROUNDUP TURBO**. Do not use a buffer when 2,4-D amine or MCPA are used.

ROUNDUP TURBO is compatible with **Alion**.

APPLICATION REQUIREMENTS:

Ensure that spray equipment is clean and correctly calibrated before use.

Use clean water. Avoid the use of brackish or muddy water or water with a high colloidal content from soils high in organic matter. Where alkaline and/or hard water occurs, it should be treated with a buffer according to label recommendations. Spray volumes should be less than 200 ℓ/ha.

It is recommended to use low pressure (1 - 1,5 bar) and low spray volumes (80 - 150 ℓ/ha) to reduce drift.

Do not spray when wind speed exceeds 10 km/hour.

AERIAL APPLICATION:

Aerial application of **ROUNDUP TURBO** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SABS Code 0118 (Aerial Application of Agricultural 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 50 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 400 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 use of a registered drift retardant and / or low drift aerial spraying nozzle (e.g. straight stream nozzle) is recommended.
- 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 10 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:
 - a) Reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
 - b) 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:

ROUNDUP TURBO will control annual weeds as indicated below. Seedlings and young plants are more sensitive and can be controlled with the lower dosage rate as indicated.

Dosage rates are given as litres per ha for broadcast spraying and as a percentage for spot treatments.

TABLE 1a: Recommended rates

ANNUAL WEEDS			
WEED GROWTH STAGE			
	1 - 12 Leaves	12+ leaves to pre-flowering	Flowering
Broadcast spraying	800 - 1250 ml/ha	1250 – 2500 ml/ha	2500 – 4000 ml/ha
Spot spraying	1,0 - 1,5 %	1,5 %	1,5 - 2,5 %

TABLE 1b: Recommendation for difficult to control weeds

ANNUAL WEEDS	
WEED	COMMON NAME
* <i>Commelina benghalensis</i>	Wandering Jew
* <i>Coryza canadensis</i>	Fleabane
* <i>Coryza floribunda</i>	Tall fleabane
*** <i>Lolium multiflorum</i>	Italian ryegrass
*** <i>Lolium temulentum</i>	Darnel
* <i>Portulaca oleracea</i>	Common purslane
* <i>Sida cordifolia</i>	Heartleaf Sida
* <i>Solanum nigrum</i>	Nightshade

For longer, persistent weed control use **ROUNDUP TURBO** in a tank mix with certain residual herbicides (see “COMPATIBILITY”) according to recommended rates in certain situations.

Add 0,5 l / 2,4-D or MCPA to improve the control.

** Variable control of these weeds can be expected.

TABLE 2: BIENNIAL, PERENNIAL AND AQUATIC WEEDS

WEED	COMMON NAME	INITIAL		FOLLOW UP SPRAY		SPOT SPRAY		REMARKS
		Rate l/ha	Solution %	l/ha	%	l/ha	%	
<i>Acacia mearnsii</i>	Black wattle	2,4	1,2		1,2		1,2	Spray up to 1 m height.
<i>Acacia saliana</i>	Port Jackson Willow	1,5	1,2		1,2		1,2	Seedlings only: Bipinnate leaf stage.
		3,0	1,2		1,2		1,2	Seedlings only: Up to 60 cm height.
<i>Caesalpinea decapetala</i>	Mauritius thorn	2,4	1,2		1,2		1,2	Spray up to 1 m height.
<i>Chromolaena odorata</i>	Triffid weed	2,4	1,2					Slash established plant. Spray on regrowth at 50 - 120 cm height to give complete droplet cover of the foliage. Previously slashed multi-stem plants may require a follow up treatment.
<i>Convolvulus arvensis</i>	Field bindweed	4,8	2,4	2,4	1,2	2,4	1,2	Apply at start of flowering. Follow up spray or spotspray on regrowth.
<i>Cynodon dactylon</i>	Common quick grass	4,8	2,4	3,0	1,5	3,0	1,5	Apply in autumn and follow up in summer or spotspray on regrowth. Or, apply in summer and follow up in autumn on regrowth.
		7,2	3,6	3,0	1,5	3,0	1,5	Winter rainfall area: Apply in autumn but before frost.
<i>Cyperus esculentus</i>	Yellow nutsedge	4,8	2,4	2,4	1,2	2,4	1,2	Apply before flowering. Follow up or spotspray on regrowth in Feb/Mar.
<i>Cyperus rotundus</i>	Purple nutsedge	4,8	2,4	2,4	1,2	2,4	1,2	Apply before flowering. Follow up or spotspray on regrowth in Feb/Mar.
<i>Eichhornia crassipes</i>	Water hyacinth	4,8	2,4		2,4		2,4	Knapsack sprayer
			3,2		3,2		3,2	Mistblower
								Apply when maximum exposures of new leaves are visible.
<i>Eragrostis curvula</i>	Weeping love grass	1,5	1,2		1,2		1,2	
<i>Erodium moschatum</i>	Musk heron's bill	2,4	1,2		1,2		1,2	Apply before 12 leaf stage in tanknix with recommended MCPA rate before bud-burst.
<i>Lantana camara</i>	Lantana	2,4	1,2		1,2		1,2	Knapsack sprayer.
			3,2		3,2		3,2	Mistblower.

WEED	COMMON NAME	INITIAL		FOLLOW UP SPRAY		SPOT SPRAY		REMARKS
		Rate l/ha	Solution %	l/ha	%	l/ha	%	
<i>Malva parviflora</i>	Small mallow	2,4	1,2		1,2		1,2	Apply before flowering in tank mix with recommended simazine rate.
<i>Oenothera stricta</i>	Evening Primrose	2,4	1,2		1,2		1,2	Apply before 12 leaf stage in tankmix with recommended simazine rate.
<i>Opuntia ficus-indica</i>	Prickly pear							Stem injection: Apply 2 ml of an 18,0 % solution into each of 4 - 12 pre-made holes in the stem of trees with 20 - 250 cladodes (consult the representative for more information).
<i>Panicum maximum</i>	Buffalo or Ulabbe grass	4,8	2,4	2,4	1,2	2,4	1,2	Follow up or spotspray on regrowth.
<i>Paspalum dilatatum</i>	Common paspalum	4,8	2,4	2,4	1,2	2,4	1,2	Initial spray at flowering stage but before seeds are shed. Follow up spray or spot- spray on regrowth.
<i>Panicum paspaloides</i>	Couch	6,5	3,0	3,0	1,5	3,0	1,5	Initial spray at flowering stage but before seeds are shed. Follow up spray or spot- spray on regrowth.
		7,2	3,6					Winter rainfall area: apply in autumn but before frost.
<i>Pennisetum clandestinum</i>	Kikuyu	3,0	1,2	2,4	1,2	2,4	1,2	Apply on active growth during summer winter rainfall area but before frost. Follow up spray or spotspray on regrowth.
<i>Phragmites australis</i>	Common reed	4,8	2,4		1,2		1,2	Knapsack sprayer. Slash regrowth and spray the following regrowth at 45 cm height.
			3,2		1,5		1,5	Mistblower. Slash regrowth and spray the following regrowth at 45 cm height. Apply at 20 - 30 % flowering.
<i>Phytolacca heptandra</i>	Ink berry	2,4	1,2		1,2		1,2	Spray up to 1 m height.
<i>Plantago lanceolata</i>	Narrow-leaved ribwort	2,4	1,2		1,2		1,2	Apply before flowering.
<i>Rubus</i> spp.	American bramble	4,8	2,4		1,2		1,2	Knapsack sprayer
			3,0		1,5		1,5	Mistblower
<i>Rumex</i> spp.	Sorrel	2,4	1,2		1,2		1,2	Apply before flowering.
<i>Sesbania punicea</i>	Sesbania	2,4	1,2		1,2		1,2	Seedlings: Up to 1 m height.
		2,4	1,2 - 1,5		1,2 - 1,5		1,2 - 1,5	Shrubs - tall trees: Slash, spray regrowth at 1 m height.
		3,0	1,5		1,5		1,5	Seedlings: over 1 m height.

WEED	COMMON NAME	INITIAL		FOLLOW UP SPRAY		SPOT SPRAY		REMARKS
		Rate /ha	Solution %	/ha	%	/ha	%	
<i>Setaria chevalieri</i>	Bush Buffalo grass	4,8	2,4		1,2		1,2	Knapsack sprayer
			3,0		1,5		1,5	Mistblower
<i>Solanum mauritianum</i>	Bugweed	1,5	1,2	1,2				Seedlings: Up to 1 m height.
		1,5	1,2		1,2		1,2	Large trees: Cut stems back to 5 - 20 cm height. Wait for regrowth to be knee height before spraying.
<i>Sorghum bicolor</i>	Wild sorghum	1,5	1,2		1,2	1,2		
<i>Sorghum halepense</i>	Johnson grass	3,0	1,5	2,4	1,2	2,4	1,2	Follow up spray or spotspray on regrowth.
<i>Stipa trichotoma</i>	Nasella tussock grass	4,8	1,2		1,5		1,5	Use high volume of 400 /ha total mixture. Spotspray regrowth or in early spring.

TABLE 3: CROP RECOMMENDATION

Crops - General

Almond, Aloe, Apples, Apricots, Avocados, Cherries, Citrus, Coffee, Deciduous fruit, Granadilla, Guava, Hops, Kiwi fruit, Litchis, Macadamia Nuts, Mangoes, Nectarines, Olives, Papayas, Peaches, Pears, Pecan Nuts, Plums, Prunes, Quince and Tea.

Dosage Rate:

See recommendations for specific weeds controlled

Prevent spray / spray mist contact with leaves, green and young bark of stems as well as fruits of crops. Trees with green bark (normally younger than 2 years) - shield stems from spray contact.

CROPS - SPECIFIC		
CROP	REMARKS	
Arable crop land (Annual weeds)	Table 1a & b	Use ROUNDUP TURBO after harvesting of the previous crop and prior to the emergence of the new crop. Use the higher rates on annual weeds exceeding 12 leaf stage or established plants. The addition of 0,5 ℓ MCPA or 0,5 ℓ 2,4D (amine salt) per ha will improve control of difficult broadleaf weeds and will also control Roundup Ready soya and cotton volunteers.
Arable crop land (Perennial weeds)	Table 2	For winter-hardened or woody <i>Conyza</i> spp. (Fleabane) and <i>Senecio</i> spp. use 2,3 - 3,6 /ha. The addition of 1,0 /ha 2,4-D (amine salt) will improve control in pre-plant situations.
Forestry	Table 1 & 2	For the establishment of: • Firebreaks, total or tracer lines; • Pre-plant trace line in virgin veld; • Post-harvest re-plant clean up; • Wattle re-establishment and the control of alien, noxious and perennial or problem weeds.

CROPS - SPECIFIC (continued)

CROP		REMARKS
Eucalyptus stump eradication	50 ml/ of 10 % solution	Single stem stump (trees never coppiced).
Notes on Eucalyptus stump eradication: • Apply solution to give complete stump wetting especially to the cambium region (where bark and wood meet). • Use a low pressure knapsack sprayer with a solid cone nozzle to wet entire stump. Apply after felling and removal of sawdust on surface to be treated. Apply on the same day as felling. Stumps which coppice after treatment should be undercut or ring barked to expose the entire cambium region which must then be treated. • A fuzzy coppice regrowth may occur which normally dies back. If not, remove it by hand or apply a 1,5 % ROUNDUP TURBO solution, avoiding drift onto newly established seedlings. • Species other than <i>Eucalyptus grandis</i> may show a variable response to ROUNDUP TURBO and may require re-treatment.		
Bananas	Protect suckers and green stems from spray contact.	
Blackberry	Use only wipe type equipment and prevent direct crop contact.	
Pineapples/Prickly Pears	Apply only as a directed inter-row application.	
Grapevines	Apply ROUNDUP TURBO as follows: • 1 year old vines - year of plant (1st leaf): • Dormant stage - do a directed inter-row application and prune directly after application (within 24 hours). • After budding - shield vines and do a directed inter-row application or do a directed inter-row application with a covered applicator • 2 year old vines - 1 year after planting (2nd leaf): • Dormant stage - can be applied over vines and prune directly after application (within 24 hours). • After budding - shield vines and do a directed inter-row application with a covered applicator. NOTE: If new vines were blanked in, treat as for 1st leaf vines. • From 3 year old vines - (3rd leaf and older): • Dormant stage - can be applied over vines. • After budding - do a directed inter-row application or an application with a covered sprayer.	
Sisal	Apply to nursery and mature plants as a directed inter-row spray.	

CROP SUGAR CANE	
RATE //HA	REMARKS
0,8 - 2,5	Pre-plant Apply to actively growing ANNUAL weeds
Table 2	Apply to actively growing PERENNIAL weeds
1,5 % Solution	Verge spray and Spot spray around fields Apply as a 1 m wide verge application to actively growing weeds around fields, especially where running grasses may encroach cane fields.
6,5 - 8,0	Last ratoon eradication a) Minimum tillage: Allow regrowth after final harvest to a height of 45 cm (tillering complete). Apply 100 - 200 //ha mixture when tillers have emerged. Ensure total coverage of cane stool.
3,3 - 6,5	b) Combination tillage: Spray ROUNDUP TURBO on the regrowth of the last ratoon at 35 - 100 cm height. Allow 1 - 10 days to elapse and shear cane stool at a depth of 10 - 15 cm below the soil surface using a blade shear or similar implement. This will also control certain weeds. Use the higher rates on more productive soils where regrowth could be a problem.
8,0 % Solution	Spot eradication Apply directed spray to foliage of diseased (e.g. Smut) or off-type stools.
0,6	Sugar Cane Ripening Ground application
0,8	Aerial Application

Notes on Sugar Cane ripening:

- Apply to actively growing cane with at least 8 green leaves.
- Do not apply where there are more than 15 % flowered stalks during the late season.
- Cane harvested from April to July: Apply 6 - 8 weeks prior to harvest.
- Cane harvested from October to January: Apply 4 - 6 weeks prior to harvest.
- **Do not attempt to ripen sugar cane which is growing under stress.**
- Do not apply to sugar cane to be harvested for seed purposes.
- **ROUNDUP TURBO** will ripen sugar cane which is regarded as being mature (up to 90 % purity) but best results are obtained when cane quality is low (young immature cane or early and late in the milling season).
- Continue irrigation as long as possible after application before starting the drying off period where applicable.
- All currently approved commercial varieties can be ripened.
- Most of the sucrose increase is concentrated in the top nodes. Top at the base of the fourth leaf sheath.
- Chemical activity is sometimes evidenced by slight leaf yellowing in early season cane and bud swell with side shooting in late season cane, within 3 - 4 weeks after application. Apical growth ceases and spindle death may occur.
- Ratoon cane may have increased tiller population and/or slightly stunted tillers with chlorotic leaves which will recover.

CROP SPECIFIC – TANK MIXES

Use recommended rates and adhere to all label restrictions for the products involved.

CROP	RATE /HA	OTHER ADDITIVE RATE/HA	REMARKS
Apples, Pears, Grapevines	According to weed tables.	MCPA (Potassium salt)	Apply when weeds such as Narrow Leaved Ribwort (<i>Plantago lanceolata</i>), Musk herons bill (<i>Erodium moschatum</i>) are young and actively growing, with the recommended MCPA rate.
	1,2	3,0	Early winter: (Weeds under 15 cm height). This combination is NOT for Small mallow (<i>Malva parviflora</i>), Cape marigold (<i>Arctotheca calendula</i>), Oat seed grass (<i>Erharta</i> spp), Blue echium (<i>Echium vulgare</i>), Ryegrass (<i>Lolium</i> spp), Sow thistle (<i>Sonchus oleraceus</i>) and Brome spp. (<i>Bromus</i> spp).
	1,5	4,0	Late winter: (Weeds under 30 cm height). Use the higher rates for Bur clover (<i>Medicago polymorpha</i>), Prostrate knotweed (<i>Polygonum aviculare</i>) and Sheep sorrel, (<i>Rumex angiocarpus</i>).

Precautions:

- Prevent spray/spray mist contact with leaves, green and young bark of stems as well as fruit of crops.
- Allow 10 days after pruning, or the removal of low branches and/or suckers before spraying weeds in perennial crops.
- Trees with green bark (Normally younger than 2 years) - shield stems from spray contact.

TABLE 4: GROWTH REGULATION (CHEMICAL MOWING)

The growth and flowering of tufted and running perennial grasses, biannual and perennial broadleaf weeds can be regulated by applying sub-lethal doses after mowing.

WEED	NAME	RATE m/ha	REMARKS
	Annual weeds and seedlings	170 - 800	Well developed annual weeds, seedlings and young plants may be controlled.
<i>Bromus unioloides</i>	Rescue grass	320 - 640	
<i>Cynodon dactylon</i>	Couch grass	320 - 800	
<i>Digitaria eriantha</i>	Smuts finger grass	320 - 800	
<i>Erodium moschatum</i>	Musk heron bill	480 - 640	
<i>Festuca</i> spp	Fescues	320 - 640	
<i>Hyparrhenia hirta</i>	Common thatch grass	320 - 800	
<i>Lolium</i> spp	Rye-grass	320 - 640	
<i>Malva parviflora</i>	Small mallow	480 - 640	
<i>Paspalum dilatatum</i>	Common paspalum	320 - 640	

TABLE 4: GROWTH REGULATION (CHEMICAL MOWING) (continued)

WEED	NAME	RATE m//HA	REMARKS
<i>Paspalum urvillei</i>	Tall paspalum	320 - 640	
<i>Pennisetum clandestinum</i>	Kikuyu grass	170 - 480	
<i>Plantago lanceolata</i>	Narrow leaved ribwort	480 - 640	
<i>Sporobolus africanus</i>	Rattail dropseed	480 - 800	
	Follow up treatments	Up to 480	All weeds in Table 4. Use lowest rate above.

Notes:

Do a test spray before treating large areas to determine the optimum rate since plant factors and the environment may influence growth regulation effects.

- Apply **ROUNDUP TURBO** 5 - 10 days after mowing. Use the shorter interval in spring and summer when growth is most active.
- Application should replace 2 - 4 mechanical mowing operations, depending on dose rate, species and climatic conditions.
- High dosage rates will have a longer growth regulation period and a corresponding increase in initial chlorosis (Yellowing).
- Perennial grasses are more sensitive to **ROUNDUP TURBO** in autumn and chlorosis can be expected to be greater during this period. Use the lower dosage rates to avoid chlorosis. In orchards and vineyards in the Winter Rainfall region where the inter-row is not irrigated (e.g. Drip irrigation) the lower dosage rate should be used for late spring and summer applications on grasses (e.g. Fescues).
- Do not apply to plants under stress conditions, e.g. drought, water-logging etc.
- Remove excess plant material after mowing, prior to spraying.
- Apply 50 - 200 l/ha spray volume and ensure even droplet distribution on target foliage.

TABLE 5: PASTURE RENOVATION
Perennial running grass infestation:

Conventional: Mechanical plus chemical pasture renovation.

Light Pressure: Prepare pasture seedbed. Allow perennial running grass and annual weeds to emerge. Apply **ROUNDUP TURBO** at recommended rates for the weeds present. (See Table 1). Sow new pasture 3 - 4 days after spraying.

Heavy Pressure: Cultivate the weeds and allow regrowth to occur. Spray with the recommended **ROUNDUP TURBO** rate. Allow 7 days after spraying before a second cultivation, seedbed preparation and planting.

Pre-sowing weed control: New germinating annual weeds can be controlled with 0,8 - 2,3 l/ha. *Cyperus* spp requires 4,8 l/ha. Sow pasture 3 - 4 days after spraying.

Pasture replacement and veld improvement: Reduce trash levels by mowing or heavy grazing 3 - 4 weeks prior on **ROUNDUP TURBO** applications on regrowth. Drill the new pasture 3 - 4 days after spraying.

Pasture maintenance: Control perennial and annual weed infestations in pastures by spot spraying with a 1,2 % solution or using wipe-type equipment to weeds projecting above the pasture. (See Table 6).

Notes:

- Use recommended rates for the control of annual weeds (see Table 1a and b) and perennial weeds (see Table 2) when renewing established pastures.
- Use conventional or direct drill planting methods.
- Ensure that rank weed growth does not prevent spray from reaching the target plants.
- Do not spray old heavy growth of Kikuyu or Common quick grass with a reduced green leaf area. Burn at the end of winter to reduce dry mass. Allow to regrow in summer and spray regrowth late summer. Establish new pastures thereafter in autumn.

TABLE 6: WIPE-TYPE WEED CONTROL APPLICATION

APPLICATION TYPE	SOLUTION	REMARKS
Hand held roller applicators.	Annual weeds 3,0 % Perennial weeds 6,0 %	100 - 150 //ha solution recommended where conventional spraying is not practical, i.e. Low trellised or bush vines, etc.
Hand held or tractor mounted rope-wick applicator	25,0 %	Apply up to 3,0 //ha solution in situations around tree crops and where weed/crop height differentiation exists, i.e. control of volunteer crop or resistant or late germinating weeds in beans and groundnuts.

Notes:

- Use a wipe-type applicator which has been approved by Bayer (Pty) Ltd. These applicators make use of an absorbent material to transfer **ROUNDUP TURBO** solution onto plants with which the applicator comes into contact.
- Ensure that the wiper surface is kept clean. The wiper must NOT come into contact with the crop.

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

Product	Reg. No.	Registration holder
Bladbuff® 7	L8121	AECI Limited
Guardian®	L4862	Bayer AG.
Harass® Xtra	L7703	Bayer AG.
MCPA (K salt)	L3616	DOW AgroScience (Pty) Ltd.
2,4-D amine	L3619	DOW AgroScience (Pty) Ltd.
Velocity-Glifo	L7768	Villa Crop Protection (Pty) Ltd.
ATP Amsul-50	L7721	Applied Technical Products c.c.

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WAARSKUWINGS:

GEVAARSTELLINGS:

- Verorsaak ernstige oogirritasie.

Hanteer versigtig.

Moenie **ROUNDUP TURBO** oplossings meng, berg of toedien vanuit gegalvaniseerde staal- of ongevoerde houers of spuitens nie. Waterstof gas mag vorm, wat vlambaar of plobbaar is.

LUGBESPUITING: Stel alle inwoners van die onmiddellike gebied wat bespuit gaan word in kennis en reik die nodige waarskuwings uit.

Stoor buite die bereik van voedsel, voer, saad, kunsmis en ander landbouchemikalieë.

Hou buite die bereik van kinders, ongelige persone en diere.

HERBETREDING: Moet nie die behandelde area betree alvorens die spuitneerslag nie droog is nie, tensy beskermende klerasie gedra word.

ALHOEWEL HIERDIE ONKRUIDDODER OMVATTEND ONDER 'N GROOT VERSKEIDENHEID TOESTANDE GETOETS IS, WAARBORG DIE REGISTRASIEHOUER NIE DAT HIERDIE PRODUK ONDER ALLE OMSTANDIGHEDE DOELTREFFEND SAL WEES NIE AANGESIEN DIE WERKING EN EFFEKTIVITEIT DAARVAN BEÏNVLOED KAN WORD DEUR FAKTORE SOOS ABNORMALE GROND-, KLIMAAT- EN BERGINGSTOESTANDE, KWALITEIT VAN VERDUNNINGSWATER, VERENIGBAARHEID MET ANDER STOWWE WAT NIE OP DIE ETIKET AANGEDUI IS NIE EN DIE VOORKOMS VAN WEERSTAND VAN DIE ONKRUID TEEN DIE ONKRUIDDODER SOWEL AS DIE METODE, TYD EN AKKURAATHEID VAN TOEDIENING. VERDER AANVAAR DIE REGISTRASIEHOUER NIE DIE VERANTWOORDELIKHEID VIR SKADE AAN GEWASSE, PLANTEGROEI, DIE OMGEWING, OF NADIGELE EFFEK OP MENS OF DIER, OF VIR DIE GEBREK AAN PRESTASIE VAN DIE ONKRUIDDODER AS GEVOLG VAN DIE VERSUIM VAN DIE GEBRUIKER OM ETIKETAANWYSINGS NA TE KOM, OF AS GEVOLG VAN DIE ONTSTAAN VAN TOESTANDE WAT NIE KRAGTENS DIE REGISTRASIE VOORSIEN KON WORD NIE.

VOORSORGMAATREËLS:

VOORSORGSTELLINGS:

- Vermyn inaseming van poeier/walm/gas/stuifsel/dampe/spuitstof.
- Was hande deeglik na hantering.
- Dra beskermende handskoene/beskermende kleren/oogbeskerming/gesigbeskerming.
- INDIEN IN OÊ: Spoel versigtig met water vir etlike minute. Verwyder kontakklense indien aanwesig en maklik om te verwyder. Hou aan met spoel.
- Indien oogirritasie voortduur: Kry mediese hulp.

Moenie eet, drink of rook tydens gebruik of daarna alvorens deeglik gewas en skoon kleren aangetrek is nie.

Voorkom die wegdrywing van spuitnevel en/of besoedeling van gevoelige of eetbare gewasse, weiding, en enige ander nie-teikengebied. Dit mag ernstige gewasskade veroorsaak.

Direkte of spuitnevelkontak van **ROUNDUP TURBO** met die blare, groen en/of onvolwasse bas en vrugte van nie-teikenplantte kan lei tot gelokaliseerde of getranslokeerde skade.

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

Spuit nie houers drie keer uit met 'n volume water gelykstaande aan 'n minimum van 10 % van die houer. Gooi die spoelwater by die inhoud van die spuitens en vernietig dan die houer deur dit stukkend te steek en plat te trap. Moenie vir enige ander doel gebruik nie. Herwin of gooi in 'n goedgekeurde stortterrein.

RELEVANTE STOWWE:

Formulasie komponent	CAS nommer	Konsentrasie (%)
Kaliumsout van glifosfaat	70901-12-1	42.0
Vetterige alkiel eter alkiel amien ethoxylate	68478-96-6	> 1 – < 10

WEERSTANDSWAARSKUWING:

ROUNDUP TURBO is 'n groepkode G onkruidoder. Enige populasie van 'n spesifieke onkruid mag individue insluit wat 'n natuurlike weerstand teen **ROUNDUP TURBO**, of enige ander groepkode G onkruidoder het. Indien hierdie onkruidoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die onkruidpopulasie oorneem. Hierdie weerstandbiedende onkruid sal waarskynlik nie deur **ROUNDUP TURBO** of enige ander groepkode G onkruidoder beheer word nie.

Om weerstand teen onkruidoders te vertraag:

- Vermyn die eksklusiewe herhaaldelike gebruik van onkruidoders met dieselfde groepkode. Wissel af met, of gebruik tenkruisings van produkte in verskillende onkruidoder groepkodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in onkruidbeheerprogramme.

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

GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS AANGEDUI.

- **ROUNDUP TURBO** simptome kan vanaf 5 dae na bespuiting sigbaar word.
- **ROUNDUP TURBO** moet op die groen blare van die teiken onkruid toegedien word. Daar moet verseker word dat daar 'n egalige druppelverspreiding op alle blare van die teiken onkruid is.
- Dit is nie nodig om onkruid tot die punt van afloop te bespuit nie.
- Moenie **ROUNDUP TURBO** spuit as die onkruid nat is, of onder stremming is as gevolg van droogte- of versuip toestande, of dormant is, of met stof bedek is of deur ryp beskadig is nie.
- Reën of besproeiing binne 2 ure na bespuiting mag die **ROUNDUP TURBO** effektiwiteit verminder.
- Enige hergroei van behandelde onkruid moet met 'n kolbespuiting oorbekandel word voordat die hergroei gevestig raak.
- Voorplant toediening van **ROUNDUP TURBO** op sanderige grond (minder as 10 % klei) met lae organiese materiaal inhoud en lae mikrobe aktiwiteit, moet ten minste 14 dae voor die uitplant van saailinge plaasvind.
- Moenie die aanbevole dosis oorskry nie.
- Die gebruik van 'n hoë kwaliteit ammoniumsulfaat bron, soos Velocity-Gilfo of ATP Amsul 50, word aanbeveel teen 2 % bygevoeg by die spuitwater voor die **ROUNDUP TURBO** bygevoeg word.

Spuitoëffek vir handsprute en kolbespuiting.

Volume	Hoeveelheid ROUNDUP TURBO				
	1,2 %	1,5 %	2,0 %	3,0 %	4,0 %
5 ℓ	60 ml	75 ml	100 ml	150 ml	200 ml
10 ℓ	120 ml	150 ml	200 ml	300 ml	400 ml
20 ℓ	240 ml	300 ml	400 ml	600 ml	800 ml
50 ℓ	600 ml	750 ml	1000 ml	1500 ml	2000 ml
100 ℓ	1200 ml	1500 ml	2000 ml	3000 ml	4000 ml

Waar rugsakspuit gebruik word, word aanbeveel dat die voorgeskrewe hoeveelheid van hierdie produk met water in 'n groot houer vermeng word. Die rugsakspuit kan dan met die vermengde oplossing gevul word.

'n Minimum van 1,2 % **ROUNDUP TURBO** spuitoëffek moet gehandhaaf word. Indien nodig moet die spuitvolume aangepas word om 'n minimum spuitoëffek van 1,2 % te verseker (bv. 1,2 ℓ **ROUNDUP TURBO** in 98,8 ℓ water). Vir lae watervolumes insluitend "CDA" en "ULV" toedieningsapparaat gebruik altyd aanbevole liters per hektaar dosisse volgens onkruidspesie tabelle. Moet nie 'n spuitkonsentrasie van 40 % oorskry nie.

VERENIGBAARHEID:

Indien in 'n tenk mengsel met ander landboumiddels gemaak word, moet die etiketaanbevelings van al die betrokke middels nagekom word. **ROUNDUP TURBO** kan met **Guardian** en **Harness Xtra** in 'n tenk mengsel gespuit word om residuele beheer te gee en met 2,4-D amien en MCPA (kaliumsalt) om beheer van moeilike bresblaaaronkruid te verbeter asook vir die beheer van opslag **Roundup Ready** katoen en sojabone. Verwys na hierdie etikette. Indien **ROUNDUP TURBO** met ander landboumiddels gemeng word, word dit aanbeveel om 'n ammoniumsulfaat mengsel (2 kg of 2 ℓ in elke 100 ℓ spuit water) by die spuitwater te voeg voordat die betrokke middel by die water gevoeg word. **ROUNDUP TURBO** word direk na die ammoniumsulfaat bygevoeg, maar voor die ander genoemde produkte. Indien alkaliese of harde spuitwater gebruik word, word dit aanbeveel om ammoniumsulfaat soos hierbo by die spuitwater te voeg of om 'n buffer, soos Bladbuff 5, by die spuitwater te voeg alvorens die **ROUNDUP TURBO** bygevoer word. Moet nie buffer indien 2,4-D amien of MCPA gebruik word nie.

ROUNDUP TURBO is verenigbaar met **Alion**.

TOEDIENINGSVEREISTES:

Voor gebruik, verseker dat die spuittoerusting skoon en korrek gekalibreer is. Gebruik skoon water. Voorkom die gebruik van brak of modderige water of water met 'n hoë organiese materiaalinhoud. Waar alkaliese en/of harde water voorkom, word die byvoeging van 'n buffer volgens die etiket aanbeveel. Spuitvolumes moet minder as 200 ℓ/ha wees. Om wegdrywing van spuitnevel te beperk, word dit aanbeveel om lae druk (1 - 1,5 bar) en lae spuitvolumes (80 - 150 ℓ/ha) te gebruik. Moenie spuit as die windsnelheid 10 km/uur oorskry nie.

LUGTOEDIENING

ROUNDUP TURBO kan slegs deur 'n geregistreerde Lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SABS Kode 0118 (Aerial Application of Agricultural Pesticides) uit die lug bespuit word. Verseker dat die spuitmengsel eweredig oor die teikenarea versprei word, en die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word.

Dit is daarom belangrik om aan die volgende vereistes te voldoen:

- **Volume:** 'n Spuitmengsel volume van 30 tot 50 l / per ha word aanbeveel. Hierdie produk is nie teen 'n verlaagde volume getoets nie. Die registrasiehouer kan nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effekte indien hierdie produk teen 'n laer volume, as hierbo aanbeveel, toegedien word nie.
- **Druppel bedekking:** 30 tot 40 druppels per cm² moet op die teikenarea herwin word.
- **Druppelgrootte:** 'n Druppelspektrum met 'n VMD van 300 tot 400 mikrons word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikrons (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- **Vlieghoogte:** Handhaaf die hoogte van die spuitbalk bo die teiken op 3 tot 4 meter. Moet nie spuit wanneer die vliegtuig duik, uitklim of draai nie.
- Gebruik geskikte **atomiseringsapparaat** wat die vereiste druppelgrootte en bedekking sal produseer, maar die minste verlies van produk verseker. Die spuitstelsel moet 'n druppelspektrum met die kleinste moontlike Relatiewe Span produseer.
- Ploeg al die atomiseerders in die binneste 60 tot 75 % van die vlekspan om te verhoed dat druppels binne-in die **vlekpuntvorteks** beweeg.
- Die gebruik van 'n geregistreerde drywingsbeheermiddel en/of 'n lae drywing lugbespuiting spuitstuk (bv. "straight stream nozzle") word aanbeveel.
- Die verskil in **temperatuur** tussen die nat- en droëboltermometer van 'n swaaigrometer, moet nie 8° C oorskry nie.
- Stop bespuiting indien die windspoed 10 km/h oorskry.
- Stop bespuiting tydens turbulente, onstabiele en droë toestande gedurende die hitte van die dag.
- Bespuiting onder temperatuur inverse toestande (deur bo of binne die inverse laag te spuit) en/of hoë lugvog toestande (relatiewe humiditeit 80 % en meer) mag tot die volgende probleme aanleiding gee:
 - a) verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken).
 - b) skade aan nie-teiken gewasse of sensitiewe areas as gevolg van wegdrywing van die spuitwolk na nie-teiken area.
- Verseker dat die Lugbespuitingsoperateur presies weet watter lande bespuit moet word.
- Dit is noodsaaklik om 'n versekering van die lugbespuitingsoperateur te verkry dat aan al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat is vir toekomstige verwysing.

TOEDIENINGSDOSISSE:

ROUNDUP TURBO sal eenjarige onkruid beheer soos hieronder aangedui. Saailinge en jonger plante is meer sensitief en kan met die laer dosis beheer word.

Aanbevelings word gegee in liter per hektaar vir algehele bespuitings en as 'n persentasie vir kolbespuitings.

TABEL 1a: Aanbevole dosis

EENJARIGE ONKRUIDE			
ONKRUID GROEISTADIUM			
	1 - 12 Blare	12+ blare tot voor blom	Blom
Breedwerpig	800 - 1250 ml/ha	1250 - 2500 ml/ha	2500 - 4000 ml/ha
Kolbespuiting	1,0 - 1,5 %	1,5 %	1,5 - 2,5 %

TABEL 1b: Aanbeveling vir moeilik beheerbare eenjarige onkruid

EENJARIGE ONKRUIDE	
ONKRUID	GEWONE NAAM
* <i>Commelina benghalensis</i>	Wandelende jood
* <i>Coryza canadensis</i>	Kanadese skraalhans
* <i>Coryza floribunda</i>	Vaalskraalhans
** <i>Lolium multiflorum</i>	Italiaanse raigras
** <i>Lolium temulentum</i>	Drabok
* <i>Portulaca oleracea</i>	Gewone porselein
* <i>Sida cordifolia</i>	Hartblaataiman
* <i>Solanum nigrum</i>	Nastergal

Vir verlengde onkruidtodder nawerking kan **ROUNDUP TURBO** in tenkingsels met sekere residuele onkruidtodders (sien "MENGBAARHEID") volgens aanbevole dosisse in sekere situasies gebruik word.

Voeg 0,5 l / 2,4-D amien of MCPA by om beheer te verbeter.

**Wisselvallige beheer mag by hierdie onkruid voorkom.

TABEL 2: TWEELAJARIGE, MEERJARIGE EN WATERONKRUIDE

ONKRUID	GEWONE NAAM	AANVANKLIKE BESPUITING		OPVOLG- BESPUITING		KOLBE- SPUITING		OPMERKINGS
		Dosis l/ha	Oplossing %	l/ha	%	l/ha	%	
<i>Acacia mearnsii</i>	Swartwattel	2,4	1,2		1,2		1,2	Spuit tot 1 m hoogte.
<i>Acacia saliana</i>	Port Jackson Willow	1,5	1,2		1,2		1,2	Slegs vir saailinge: Tweeblaarstadium.
		3,0	1,2		1,2		1,2	Slegs vir saailinge: Tot 60 cm hoogte.
<i>Caesalpineia decapetula</i>	Kraaldoring	2,4	1,2		1,2		1,2	Spuit tot 1 m hoogte.
<i>Chromolaena odorata</i>	Eupatorium	2,4	1,2					Kap gevestigde plante af. Bespuit hergroei op 50 - 120 cm hoogte. Verseker volledige druppelbedekking op die lower. Vorige gekapte meerstammige plante mag 'n opvolg behandeling benodig.
<i>Convolvulus arvensis</i>	Akkerwinde	4,8	2,4	2,4	1,2	2,4	1,2	Dien toe sodra begin blom. Opvolgbespuiting of kolbespuit op hergroei.
<i>Cynodon dactylon</i>	Kweek	4,8	2,4	3,0	1,5	3,0	1,5	Dien toe in die herfs en doen opvolgbespuiting of kolbespuiting van hergroei gedurende die somer. Of, dien toe in die somer en doen opvolgbespuiting van hergroei in die herfs.
		7,2	3,6	3,0	1,5	3,0	1,5	Winterreënvale gebied: Dien toe in herfs maar voor enige ryp.
<i>Cyperus esculentus</i>	Geeluintjie	4,8	2,4	2,4	1,2	2,4	1,2	Dien toe voor plant blom. Opvolgbespuiting of kolbespuit op hergroei gedurende Feb/Mar.
<i>Cyperus rotundus</i>	Rooiuintjie	4,8	2,4	2,4	1,2	2,4	1,2	Dien toe voor plant blom. Opvolgbespuiting of kolbespuit op hergroei gedurende Feb/Mar.
<i>Eichhornia crassipes</i>	Water hiasint	4,8	2,4		2,4		2,4	Rugsakspuit
			3,2		3,2		3,2	Newelblaser
								Dien toe wanneer nuwe blare maksimaal sigbaar is.
<i>Eragrostis curvula</i>	Oulandsgras	1,5	1,2		1,2		1,2	
<i>Erodium moschatum</i>	Turknael	2,4	1,2		1,2		1,2	Dien toe voor 12-blaarstadium in 'n tenk-mengsel met die aanbevole MCPA-dosis.
<i>Lantana camara</i>	Gewone lantana	2,4	1,2		1,2		1,2	Rugsakspuit.
			3,2		3,2		3,2	Newelblaser.

ONKRUID	GEWONE NAAM	AANVANKLIKE BESPUITING		OPVOLG- BESPUITING		KOLBE- SPUITING		OPMERKINGS
		Dosis l/ha	Oplossing %	l/ha	%	l/ha	%	
<i>Malva parviflora</i>	Kiesieblaar	2,4	1,2		1,2		1,2	Bespuit voor blom alleenlik in tenkmengsel met die aanbevole simasiendosis.
<i>Oenothera stricta</i>	Nagblom	2,4	1,2		1,2		1,2	Dien toe voor 12-blaarstadium in 'n tenkmengsel met aanbevole simasiens dosis.
<i>Opuntia ficus-indica</i>	Turksvy							Stam-inspuiting: Dien 2 ml van 'n 18,0 % oplossing in elk van 4 - 12 voorafgeboorde gate in die stam van bome met 20 - 250 blaie toe (Raadpleeg u verteenwoordiger vir meer besonderhede).
<i>Panicum maximum</i>	Buffelsgras	4,8	2,4	2,4	1,2	2,4	1,2	Opvolgbespuiting of kolbespuiting op hergroei.
<i>Paspalum dilatatum</i>	Polpaspalum	4,8	2,4	2,4	1,2	2,4	1,2	Dien toe met blom, maar beslis voor saadval. Opvolgbespuiting of kolbespuiting op hergroei.
<i>Panicum paspaloides</i>	Kweekpaspalum	6,5	3,0	3,0	1,5	3,0	1,5	Dien toe met blom, maar voor saadval. Opvolgbespuiting of kolbespuiting op hergroei.
		7,2	3,6					Winterreënvalgebied: Dien toe in herfs, maar voor enige ryp.
<i>Pennisetum clandestinum</i>	Kikoejie	3,0	1,2	2,4	1,2	2,4	1,2	Dien toe op aktiewe groei in somer in die winterreënvalgebied, maar voor enige ryp. Opvolgbespuiting of kolbespuiting op hergroei.
<i>Phragmites australis</i>	Fluitjiesriet	4,8	2,4		1,2		1,2	Rugsakspruit. Kap hergroei af. Bespuit daaropvolgende hergroei op 45 cm hoogte.
			3,2		1,5		1,5	Newelblaser. Kap hergroei af. Bespuit daaropvolgende hergroei op 45 cm hoogte. Dien toe op 20 - 30 % blom-stadium.
<i>Phytolacca heptandra</i>	Inkbessie	2,4	1,2		1,2		1,2	Spruit tot 1 m hoogte.
<i>Plantago lanceolata</i>	Tongblaar	2,4	1,2		1,2		1,2	Bespuit voor blom.
<i>Rubus</i> spp.	Brame	4,8	2,4		1,2		1,2	Rugsakspruit
			3,0		1,5		1,5	Newelblaser
<i>Rumex</i> spp.	Steenboksuring	2,4	1,2		1,2		1,2	Bespuit voor blom.
<i>Sesbania punicea</i>	Sesbania	2,4	1,2		1,2		1,2	Saailinge: Tot 1 m hoogte.
		2,4	1,2 - 1,5		1,2 - 1,5		1,2 - 1,5	Struik - lang bome: Sny af en bespuit hergroei op 1 m hoogte.
		3,0	1,5		1,5		1,5	Saailinge: hoër as 1 m.

ONKRUID	GEWONE NAAM	AANVANKLIKE BESPUITING		OPVOLG- BESPUITING		KOLBE- SPUITING		OPMERKINGS
		Dosis //ha	Oplossing %	//ha	%	//ha	%	
<i>Setaria chevalieri</i>	Bosbuffelsgras	4,8	2,4		1,2		1,2	Rugsaksput
			3,0		1,5		1,5	Newelblaser
<i>Solanum mauritanium</i>	Luisboom	1,5	1,2	1,2				Saailinge: Spuit tot 1 m hoogte.
		1,5	1,2		1,2		1,2	Groot bome: Kap stam terug tot 5 - 20 cm hoogte. Spuit indien hergroei kniehoogte is.
<i>Sorghum bicolor</i>	Wilde graansorghum	1,5	1,2		1,2	1,2		
<i>Sorghum halepense</i>	Johnson gras	3,0	1,5	2,4	1,2	2,4	1,2	Opvolgbespuiting op hergroei, of kolbespuiting.
<i>Stipa trichotoma</i>	Nasella polgras	4,8	1,2		1,5		1,5	Gebruik hoë volume-mengsel van 400 //ha. Kolbespuit hergroei of bespuit vroeg in lente.

TABEL 3: GEWAS AANBEVELINGS

Gewasse - Algemeen

Aalwyn, Amandels, Appels, Appelkose, Avokado, Grenadella, Hops, Kersie, Kiwi vrugte, Koffie, Koejawel, Kwepers, Lietjies, Mangos, Makadamianeute, Nektariens, Olywe, Papaja, Pere, Perskes, Pekanneute, Pruime, Pruimedante, Sagtevrugte en Tee.

Aanbevole dosis:

Sien aanbevelings vir spesifieke onkruidbeheer.

Vermi spuitkontak met blare, groen of onvolwasse bas en vrugte van nie-teiken plante / gewas tydens toediening. By bome met groen bas (gewoonlik jonger as 2 jaar), moet die stamme beskerm word teen sproeiakontak.

GEWASSESPESIEK		
GEWAS	OPMERKINGS	
Landerye (Eenjarige onkruid)	Tabel 1a & b	Gebruik ROUNDUP TURBO na oes van die vorige gewas, maar voor opkoms van die nuwe gewas. Gebruik die hoër dosis vir eenjarige onkruid ouer as die 12 blaar-stadium of gevestigde plante. Die byvoeging van 0,5 l MCPA of 0,5 l 2,4-D (amiensout) per ha sal beheer van moeilike onkruid verbeter en sal ook opslag Roundup Ready soja- en katoenplante beheer.
Landerye (Meerjarige onkruid)	Tabel 2	Vir wintergeharde of houtagtige <i>Coryza</i> spp. (Skraalhans) en <i>Senecio</i> spp. gebruik 2,3 - 3,6 //ha. Die byvoeging van 1,0 //ha 2,4-D (amien) sal beheer verbeter in voorplant situasies.
Bosbou	Tabel 1 & 2	Vir die vestiging van: • Vuurbane, algeheel of stroke; • Voorplant stroke in onversteurde veld; • Na oes, voor plant skoonmaak; • Watter hervestiging en die beheer van indringer-, skadelike en meerjarige of probleemonkruid.

GEWASSESIEKIE (Vervolg)

GEWAS		OPMERKINGS
Bloekom stomp uitwissing	50 ml van 10 % oplossing	Enkelstam stomp (bome wat nie hergroeï van 'n moederstam nie).
Notas oor bloekomstomp uitwissing: - Dien oplossing toe vir volledige benutting van veral die kambium-area (waar bas en hout ontmoet). - Gebruik 'n lae druk rugsakspuit met volkegel spuitpunte vir volledige stompbenutting. Dien toe nadat die bome gefel is en die saagsels op die oppervlakte verwyder is. Stompe wat uitloop na behandeling moet korter afgesaag of geringeleer word om die totale kambium bloot te lê vir verdere behandeling. 'n Pluiseiger hergroeï mag voorkom wat normaalweg terugsterf. Indien nie, verwyder met die hand of spuit 'n 1,5 % ROUNDUP TURBO oplossing met die nodige voorsorg om wegdrywing na nuutgevestigde saailinge te voorkom. - Ander spesies as <i>Eucalyptus grandis</i> mag wisselvallige resultate met ROUNDUP TURBO lewer en 'n herbespuiting mag nodig wees.		
Piesangs		Beskerm suiers en groen stamme teen sproei-kontak.
Brame		Gebruik slegs bestryktipe toerusting. Vermyn kontak met die gewas.
Pynappels en Turksywe		Dien alleenlik toe as 'n gerigte tussenry-bespuiting.
Wingerd		Dien ROUNDUP TURBO as volg toe: 1 jaar oue wingerd - jaar van plant (1^{ste} blad): - Domante stadium - doen gerigte tussenry-bespuiting en snoei direk na toediening (binne 24 uur). - Na bot - skerm stokke af en doen gerigte tussenry-bespuiting of gebruik 'n bedekte spuit. 2 jaar oue wingerd - 1 jaar na plant (2^{de} blad): - Domante stadium - kan bo-oorstokke toedien en snoei direk na toediening (binne 24 uur). - Na bot - skerm stokke af en doen gerigte tussenry-bespuiting of gebruik 'n bedekte spuit. NOTA: Indien inboetstokke aanwesig is, behandel soos vir 1^{ste} blad wingerd. Vanaf 3 jaar en ouer wingerd - (3^{de} blad en ouer): - Domante stadium - kan bo-oorstokke toegedien word. - Na bot - doen gerigte tussenrybespuiting of gebruik 'n bedekte spuit.
Sisal		Dien as 'n gerigte tussenry-bespuiting toe in kwekery en by volwasse plante.

GEWAS - SUIKERRIET

DOSIS /HA	OPMERKINGS
0,8 - 2,5	Voor plant Dien toe op aktiefgroeiende EENJARIGE onkruid
Tabel 2	Dien toe op aktiefgroeiende MEERJARIGE onkruid
1,5 % Oplossing	Randbespuiting en Kolbespuit om landerye Dien as 'n 1 m wyd randbespuiting toe op aktiefgroeiende onkruid om landerye veral waar kruipende grasse (rankgrasse) landerye wil binnedring.
6,5 - 8,0	Laaste ratoen uitwissing a) Minimumbewerking: Laat hergroei toe tot 45 cm hoogte na laaste ratoen (stoelstadium voltooi). Dien 100 - 200 /ha mengsel toe sodra halm verskyn. Verseker totale bedekking van teiken suikerriet.
3,3 - 6,5	b) Kombinasie-bewerking: Bespuit hergroei op 35 - 100 cm hoogte met ROUNDUP TURBO na laaste ratoen. Sny die suikerrietstoele na verloop van 1 - 10 dae op 'n diepte van 10 - 15 cm onder die grondoppervlak met 'n lem of soortgelyke implement. Sekere onkruid sal ook deur die behandeling beheer word. Gebruik die hoër dosis op vrugbare gronde waar hergroei 'n probleem is.
8,0 % Oplossing	Koluitwissing Dien gerig toe op die lower van besmette (bv. Brand) of af-tipe plante.
0,6	Rypmaking Grond bespuiting
0,8	Lugtoediening

Notas oor rypmaking:

- Dien toe op aktiefgroeiende riet met ten minste 8 groen blare.
- Moenie lande in die laatseisoen bespuit as meer as 15 % van die halm in blom is nie.
- Riet gekap van April tot Julie: Dien 6 - 8 weke voor kap toe.
- Riet gekap van Oktober tot Januarie: Dien 4 - 6 weke voor kap toe.
- Moenie probeer om riet ryp te maak wat onder stremming verkeer nie.
- Moenie lande bespuit wat vir saaddoeleindes gekap word nie.
- **ROUNDUP TURBO** sal suikerriet rypmaak wat volgroeï is (tot op 90 % suiwerheid), maar die beste resultate word verkry as rietkwaliteit laag is (jong onvolwasse riet of vroeg en laat in die meuseisoen).
- Hou aan met besproeiing waar van toepassing so lank as moontlik na toediening voordat die rypmaakperiode (waar van toepassing) begin.
- Alle bestaande goedgekeurde kommersiële kultivars kan rypgemaak word.
- Die grootste suikroese-toename is gekonsentreer in die boonste nodes. Sny by die basis van die vierde blaarskede.
- Chemiese aktiwiteit, 3 - 4 weke na toediening, is soms waarneembaar as 'n effense vergeling vroeg in die seisoen en knopswel en sy-spruiting laat in die seisoen. Knopgroei-stop en spildood mag ook voorkom.
- Ratoenriet mag meer halm ontwikkel, wat aanvanklik verpot mag voorkom, met vergeling op die blare wat sal herstel.

GEWASSESPESIFIEKE - TENKMENGSELS

Gebruik die aanbevole dosisse en hou by die beperkings op die etiket van die betrokke produkte.

GEWAS	DOSIS //HA	ANDER PRODUK DOSIS //HA	OPMERKING
Appels, Pere, Wingerd	Volgens onkruidtabelle	MCPA (Kaliumsout)	Dien toe wanneer onkruid soos Tongblaar (<i>Plantago lanceolata</i>) en Turksnael (<i>Erodium moschatum</i>) jonk is en aktief groei met die aanbevole MCPA dosis.
	1,2	3,0	Vroeë winter: (Onkruid kleiner as 15 cm hoogte). Die kombinasie word NIE vir Kiesieblaar (<i>Malva parviflora</i>), Gousblom (<i>Arctotheca calendula</i>), Hawersaadgras (<i>Eriaria</i> spp.), Echium spp. (<i>Echium vulgare</i>), Raaigras (<i>Lolium</i> spp.), Sydisse (<i>Sonchus oleraceus</i>) en Predikantsluis (<i>Bromus</i> spp.) aanbeveel NIE.
	1,5	4,0	Laatwinter: (Onkruid kleiner as 30 cm hoogte). Gebruik die hoër dosis vir Klaver (<i>Medicago polymorpha</i>), Koperdraad (<i>Polygonum aviculare</i>) en Steenboksuring (<i>Rumex angiocarpus</i>).

Voorsorgmaatreëls:

- Voorkom spuit- of sproei-nawelkontak met blare, groen en jong bas van stamme, asook vrugte van gewasse.
- Laat 'n periode van 10 dae toe na snoei, of verwydering van laaghangende takke en suiers, alvorens onkruid in meerjarige gewasse bespuit word.
- Jong boompies met groen bas (normaalweg jonger as 2 jaar); beskerm stamme teen sproei-kontak.

TABEL 4: GROEIREGULERING (CHEMIESE SNY)

Die groei en blom van meerjarige pol- en kruipgrasse, tweejarige en meerjarige breëblaar- en eenjarige onkruid kan beheer word deur die toediening van nie-dodelike dosisse nadat die plante afgesny is.

ONKRUID	NAAM	DOSIS m//ha	OPMERKINGS
	Eenjarige onkruid en saailinge	170 - 800	Goed ontwikkelde eenjarige onkruidsaailinge en jong plante mag deur hierdie behandeling beheer word.
<i>Bromus unioloides</i>	Reddingsgras	320 - 640	
<i>Cynodon dactylon</i>	Gewone kweek	320 - 800	
<i>Digitaria eriantha</i>	Smutsvingergras	320 - 800	
<i>Erodium moschatum</i>	Turksnael	480 - 640	
<i>Festuca</i> spp	Swenkgras	320 - 640	
<i>Hyparrhenia hirta</i>	Dek tamboekiegras	320 - 800	
<i>Lolium</i> spp	Raaigras	320 - 640	
<i>Malva parviflora</i>	Kiesieblaar	480 - 640	
<i>Paspalum dilatatum</i>	Gewone paspalum	320 - 640	

TABEL 4: GROEIREGULERING (CHEMIESE SNY) (Vervolg)

ONKRUID	NAAM	DOSIS m/ha	OPMERKINGS
<i>Paspalum urvillei</i>	Langbeen paspalum	320 - 640	
<i>Pennisetum clandestinum</i>	Kikoejoe	170 - 480	
<i>Plantago lanceolata</i>	Tongblaar	480 - 640	
<i>Sporobolus africanus</i>	Rotstert fynsaadgras	480 - 800	
	Opvolgbespuitings	Tot by 480	Alle onkruid in die Tabel 4 Gebruik laagste dosis hierbo.

Notas:
Toets op 'n klein oppervlakte alvorens groot oppervlakktes bespuit word om die optimale dosis te kry vir effektiewe groei regulering.

- Dien **ROUNDUP TURBO** 5 - 10 dae na afsny toe. Gebruik die korter interval in die lente en somer tydens meer aktiewe groei.
- Toediening behoort 2 - 4 meganiese operasies te vervang afhangend van dosis, spesie en weerstoestande.
- Hoër dosisse sal groei langer onderdruk met 'n gepaardgaande hoër voorkoms van aanvanklike chlorose (vergeling)
- Meerjarige grasse is meer sensitief vir **ROUNDUP TURBO** in die herfs. 'n Groter mate van chlorose kan dus verwag word. Gebruik 'n laer dosis om dit te voorkom. Gebruik die laer dosis op grasse gedurende laat lente en somer in vrugteboorde en wingerde in die winterreënvalgebied, waar die tussen-ry nie besproei word nie (bv. drup besproeiing).
- Moenie toedien op plante wat onder stremming verkeer nie bv. droogte, versuip, ens.
- Vervulder oortollige plantmateriaal na sny, voor bespuiting.
- Dien 50 - 200 l/ha spuitvolume toe en verseker 'n egalige druppelverspreiding op die blare van teiken plante.

TABEL 5: WEIDINGSOPKNAPPING

Meerjarige rankgrasbesmetting:

Konvensioneel: Meganiese en chemiese opknapping.

Ligte onkruidruk: Berei saadbed voor. Laat meerjarige rankgras en eenjarige onkruid opkom. Dien **ROUNDUP TURBO** toe volgens aanbevole dosisse vir onkruidspektrum. (Sien Tabel 1) Saai nuwe weiding 3 - 4 dae na toediening.

Hevige onkruidruk: Bewerk die onkruid en laat hergroei toe. Spuit dan die aanbevole **ROUNDUP TURBO** dosis. Laat 7 dae voor 'n tweede bewerking, saadbedvoorbereiding en plant/saai.

Voorsaai onkruidbeheer: Nuut ontkiemende onkruid kan beheer word met 0,8 - 2,3 l/ha. *Cyperus* spp benodig 4,8 l/ha. Saai die nuwe weigewas 3 - 4 dae na toediening.

Vervanging van weiding en veld verbetering: Verminder plantmateriaal deur af te sny of te bewei. Dien **ROUNDUP TURBO** 3 - 4 weke daarna toe op hergroei. Plant die nuwe weigewas 3 - 4 dae na bespuiting.

Onderhoud van weiding: Beheer een- en meerjarige onkruid in weidings deur kolbespuitings met 'n 1,2 % oplossing of gebruik 'n bestryktipe toedienaar waar onkruid bokant die weiding uitsteek (sien Tabel 6).

Notas:

- Gebruik die aanbevole dosis om eenjarige (Tabel 1a en b) en meerjarige onkruid (Tabel 2) te beheer tydens opknapping van gevestigde weidings.
- Gebruik konvensionele of direkte plantmetodes.
- Voorkom dat geil onkruidgroei nie verhoed dat teikenplante benut word nie.
- Moenie ou, swaar gevestigde Kikoejoe of Fynkweek met verminderde groen blaaroppervlakte bespuit nie. Brand die grasmassa aan die einde van die winter. Laat hergroei toe en bespuit dan in die laatsomer vir herfs vestiging van die nuwe weiding.

TABEL 6: BESTRYKTOEDIENING

TIPE TOEDIENER	OPLOSSING	OPMERKINGS
Rollertoediener handtipe.	Eenjarige onkruiide 3,0 % Meerjarige onkruiide 6,0 %	100 - 150 //ha oplossing word aanbeveel waar konvensionele bespuiting onprakties is, bv. laag opgeleide bostok wingerde.
Handmodel of trekker gemonteerde tou-tipe toediener.	25,0 %	Dien tot en met 3,0 //ha oplossing /ha toe in boorde en waar onkruid- en gewashoogtes verskil, bv vir beheer van opslag of laat ontkiemende onkruid in boontjies en grondboontjies.

Notas:

- Gebruik 'n bestryktipe toediener wat deur Bayer (Edms) Bpk. goedgekeur is. Die tipe toediener maak gebruik van absorberende materiaal om die **ROUNDUP TURBO** oplossing oort te dra op die plante waarmee dit in aanraking kom.
- Verseker dat die bestrykoppervlakte skoon gehou word. Die bestrykoppervlakte MOET NIE met die gewas in aanraking kom nie.

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

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Wash hands thoroughly after handling.

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