Roundup® PowerMAX HERBICIDE

TRANSORB TECHNOLOGY

SEE ENCLOSED PAMPHLET FOR FULL PARTICULARS

Reg. No. L7769 (Act No. 36 of 1947)

A soluble concentrate, non-selective post-emergence for the control of annual and perennial weeds in ROUNDUP READY® maize and soybean and ROUNDUP READY® cotton varieties.

SIEN INGESLOTE PAMFLET VIR VOLLEDIGE BESONDERHEDE

Reg. Nr. L7769 (Wet Nr. 36 van 1947)

'n Oplosbare konsentraat, nie-selektiewe sistemiese na-opkoms onkruiddoder vir die beheer van een- en meerjarige onkruide in ROUNDUP READY® mielie en sojaboon en ROUNDUP READY® katoen kultivars.

GROUP / GROEP | G | HERBICIDE / ONKRUIDDODER

WARNING

HAZARD STATEMENTS:
Very toxic to aquatic life with long lasting effects.
PRECAUTIONARY STATEMENTS:
Avoid release to the environment. 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.

Active ingredient:
Glyphosate (glycine)........ 540 g/ℓ
(contains 633 g potassium salt of glyphosate)

Aktiewe bestanddeel:
Glifosaat (glisien)........ 540 g/ℓ
(bevat 633 g kaliumsout van glifosaat)

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REGISTERED BY / GEREGISTREER DEUR:
Bayer (Pty) Ltd / (Edms) Bpk
Reg. 1968/011192/07
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IN CASE OF POISONING PLEASE PHONE / IN GEVAL VAN VERGIFTIGING SKAKEL ASSEBLIEF: 0861 555 777
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Roundup® is a registered trademark of Monsanto Technology LLC
Roundup® is 'n geregistreerde handelsmerk van 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:
- Very toxic to aquatic life with long lasting effects.

Withholding period: Allow the following number of days between last application and harvest:
Maize: Grazing 28 days and Green Mealies 42 days.
Handle with care.
Poisonous when swallowed.
Do not mix, store or apply **ROUNDUP POWERMAX** 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:

PRECAUTIONARY STATEMENTS:
- Avoid release to the environment.
- 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.

Do not breathe in fumes or spray mist.
Wear gloves and face shields when handling concentrate.
In case of accidental contact with skin or eyes, wash immediately with plenty of water and in the case of eyes, get medical attention if necessary.
Do not smoke, eat or drink while using, or before washing and change of clothing.
Prevent spray drift and/or contamination onto 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 POWERMAX** 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.
Do not add foliar applied nutrients to **ROUNDUP POWERMAX**.

RELEVANT SUBSTANCES:

Formulation component	CAS Number	Conc. (%)
Potassium salt of glyphosate	70901-12-1	48.72
Alcohols, C12-16-alkyl ethers, propoxylated, aminated, ethoxylated	176022-82-5	> 1 – < 10

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

ATTENTION: USE OF ROUNDUP POWERMAX HERBICIDE IN ACCORDANCE WITH LABEL DIRECTIONS IS EXPECTED TO RESULT IN NORMAL GROWTH OF ROUNDUP READY MAIZE AND SOYABEAN AND ROUNDUP READY FLEX COTTON VARIETIES. HOWEVER, VARIOUS ENVIRONMENTAL CONDITIONS, AGRONOMIC PRACTICES AND OTHER FACTORS MAKE IT IMPOSSIBLE TO ELIMINATE ALL RISKS ASSOCIATED WITH THIS PRODUCT, EVEN WHEN APPLICATIONS ARE MADE IN CONFORMANCE WITH THE LABEL SPECIFICATIONS. IN SOME CASES, THESE FACTORS CAN RESULT IN UNANTICIPATED RESULTS INCLUDING YIELD LOSS.

ATTENTION: BAYER RECOMMENDS THIS PRODUCT ONLY FOR POST EMERGENT USE OVER-THE-TOP OF OR DIRECTED ONTO IMPROVED MAIZE, COTTON AND SOYBEAN VARIETIES THAT ARE DESIGNATED AS CONTAINING THE ROUNDUP READY GENE. SEVERE INJURY OR DEATH OF MAIZE, COTTON AND SOYBEAN WILL RESULT IF ANY HYBRIDS OR VARIETIES NOT PROPERLY DESIGNATED AS HAVING THE ROUNDUP READY GENE ARE SPRAYED WITH THIS PRODUCT.

General information:
- **The herbicidal action is only visible after 4 days onwards for annual weeds and 7 days for perennial weeds after application (depending on growing conditions, weed growth stage and cultural conditions).**
- **Apply ROUNDUP POWERMAX post-emergence to actively growing weeds, directed on the foliage.**
- **Do NOT spray whilst weeds are wet, dormant or under stress nor when covered in a layer of dust or damaged by frost.**
- **Heavy rainfall or irrigation shortly after application may reduce efficacy and a repeat application may be necessary. ROUNDUP POWERMAX is rainfast within one hour after application.**
- **There are no rotational crop restrictions due to herbicide activity following applications of this product.**

RESISTANCE WARNING:
For resistance management, **ROUNDUP POWERMAX** is a group code G herbicide. Any weed population may contain individuals naturally resistant to **ROUNDUP POWERMAX** 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 POWERMAX** 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.

MIXING INSTRUCTIONS:
Note: Always use clean, good quality water for mixing and spraying.
- **ROUNDUP POWERMAX** mixes readily with water.
- Always use clean water. Avoid the use of brack or muddy water, or water with a high colloid content derived from soils high in organic matter. Where alkaline and/or hard water occurs, a buffer should be added according to label recommendations. Analysis of the water source is advisable to determine the level of the sodium, calcium and magnesium cations, as well as the carbonate and bicarbonate fractions as pH is not necessarily a good indicator of whether antagonism will be experienced between the herbicide and the water carrier.
- The use of a high quality ammonium sulphate source, such as Velocity Super, Velocity DryMax, AMS Super or AMS Granule, is recommended at a rate of 2% added to the spray solution before adding **ROUNDUP POWERMAX**.
- Spray water pH must be in the range of 5 to 6.5. Add a buffering agent if necessary (e.g. Bladbuff®).
- Sequence of tank mixing: add the ammonium sulphate to the spray water; buffer (if needed), add the **ROUNDUP POWERMAX** followed by the recommended tank mix product.
- Agitate the spray solution while mixing and spraying.
- Clean sprayer parts immediately after using this product by thoroughly flushing with water.
- **ROUNDUP POWERMAX** can be tank mixed and sprayed with certain EC and SL formulations. Do a small-scale test mix to confirm compatibility before doing a large-scale application. Adhere to all label recommendations.
- For the control of *Commelina benghalensis* (wandering Jew), *Convolvulus arvensis* (field bind weed), *Ipomoea purpurea* (morning glory) and *Portulaca oleracea* (common purslane) in **ROUNDUP READY MAIZE ONLY**, **ROUNDUP POWERMAX** can be mixed with either 2,4-D amine or MCPA at recommended rates.
- Do not use a buffering agent when tank mixing with either 2,4-D amine or MCPA.
- Do not mix with SC insecticide formulations.
- Do not add any surfactants.
- Do not use in tank mix with any acids such as fulvic, citric, phosphoric or any other organic acids.

SPRAY SOLUTION FOR HAND-HELD KNAP- SACK SPRAYERS:
Specifically for spot spraying of weeds and for fields smaller than 1 hectare.

2,0 % spray solution	
Desired Water Volume	**ROUNDUP POWERMAX**
5 ℓ 10 ℓ 20 ℓ	100 m 200 m 400 m

APPLICATION INFORMATION:

- Tractor mounted or towed sprayers: **ROUNDUP POWERMAX** herbicide must be applied in a water volume of 100 - 125 ℓ/ha. Ensure an even droplet distribution on the target leaf surfaces.
  Avoid spraying to the point of run-off from the target leaf surfaces. (At volumes of under 125 ℓ/ha, run off should not be a concern).
- The water volume can be reduced to 75 ℓ/ha when using self-propelled sprayers. Limit speed to maximum of 15 km/h.
- Ensure that spray equipment is clean and free of rust, dust and sediment from other pesticides before spraying.
- Correctly calibrate all sprayers under field conditions.
- It is recommended to use low pressures of 100 to 150 kPa with the appropriate nozzles to deliver the required water volume and dosage rate per ha.
- Do not spray when wind speed exceeds 10 km/h.
- Ensure a fine, even droplet distribution and thorough coverage without runoff from the target weeds.

ROUNDUP READY FLEX COTTON

1. **Broadcast Application**
   This product may be applied to control annual grasses and broadleaf weeds listed on this label in **ROUNDUP READY FLEX** cotton.
   ROUNDUP POWERMAX herbicide may be applied over-the-top beyond the 4th TRUE LEAF/NODE COTTON GROWTH STAGE in **ROUNDUP READY FLEX** cotton. For best results, make applications while weeds are small (less than 100mm high).
   - Where sequential applications are necessary to control specific weed species (e.g. *Cyperus esculentus*) the second application should not occur within 10 days of the first application. The second application can be delayed beyond the 4th TRUE LEAF/NODE COTTON GROWTH STAGE.

Maximum allowable **ROUNDUP POWERMAX** application volumes:

- Combined total per season for all applications — 12.4 ℓ/ha
- Pre-plant, Pre-emergent applications — 7.7 ℓ/ha
- Total in-crop applications from emergence throughout to 60% open balls — 9.3 ℓ/ha
- Maximum pre harvest application rate from 60% open bolls to 7 days before harvest — 3.2 ℓ/ha

See recommendations under “Application dosages”.

ROUNDUP READY SOYBEAN

1. **Broadcast Application**
   This product may be applied post-emergent to **ROUNDUP READY** Soybeans from the ground cracking stage throughout to flowering. **Allow a minimum of 14 days between application and the harvest of soybeans.**

Maximum allowable **ROUNDUP POWERMAX** application volumes:

- Combined total per season for all applications — 6.7 ℓ/ha
- Pre-plant, Pre-emergent applications — 2.0 ℓ/ha
- Total in-crop applications from cracking throughout to flowering — 4.7 ℓ/ha
- Maximum pre harvest application rate — 1.3 ℓ/ha

See recommendations under “Application dosages”.

ROUNDUP READY MAIZE

1. **Broadcast Application**
   Broadcast (over the top) application of **ROUNDUP POWERMAX** herbicide can ONLY BE APPLIED FROM THE GROUND CRACKING STAGE UP TO THE V8 STAGE. THIS STAGE IS REACHED WHEN THE FIRST PLANTS IN THE FIELD HAVE 8 LEAVES WITH CLOSED COLLARS AROUND THE MAIN STEM. The actual number of leaves may be more. Do not make broadcast applications if mechanical crop damage due to the passing of the spray rig will occur. BROADCAST APPLICATION AFTER V8 STAGE MAY RESULT IN YIELD LOSS OR DELAYED MATURITY. For best results use flat fan or twin jet nozzles that are suitable for low water volume deliveries. Where sequential applications are necessary to control specific weed species (e.g. *Cyperus esculentus*), the second application should not occur within 10 days of the first application. If by this time the maize is beyond the V8 stage, a post directed (see below) application will be necessary.

2. **Directed application**
   Directed **ROUNDUP POWERMAX** herbicide applications can be made after the V8 stage, where row spacing permits the passage of the application equipment without causing mechanical damage to the maize crop. Row spacings of 150 cm and 210 cm will probably work best for conventional tractor mounted spray rigs.
   For the control of certain broadleaf weeds mentioned above, **ROUNDUP POWERMAX** can be mixed with either 2,4-D amine or MCPA at recommended rates.

   See recommendations under “Application dosages”.

APPLICATION DOSAGES FOR ALL CROPS
Weed spectrums in maize, cotton and soybean are variable and differ by region, soil type and climatic factors that change from season to season. This results in a varied and uneven emergence of a variety of weed species at any one site where one or more species may dominate. In order to compensate for this fact the dosages recommended are aimed at covering a broad spectrum of weeds provided they are sprayed **before** weeds with an upright growth form reach **100 mm in height** (e.g. khaki weed) or weeds with a flat growth form reach the **6 - 8 leaf stage** (e.g. common purslane).

DOSAGE RATES

A. Annual grasses and broad leaf weeds:
1.3 ℓ/ha applied before 100 mm in height or the 8 leaf stage.
1.7 ℓ/ha applied between 100 and 200 mm or up to the 12 leaf stage.

B. Species requiring a follow-up spray and/or increased rate (Variable control *):
* *Commelina benghalensis* - Wandering Jew
2.0 ℓ/ha Apply at the three-leaf stage followed by
2.0 ℓ/ha (apply 10 - 20 days later).

* *Ipomoea purpurea* - Morning glory
2.0 ℓ/ha Apply at the 4 - 5 leaf stage followed by
2.0 ℓ/ha (apply 10 - 20 days later).

* *Portulaca oleracea* - Common purslane
2.0 ℓ/ha Apply before flowering.

* *Tribulus terrestris* - Devil's thorn
1.7 ℓ/ha apply before first flowers appear.

C. Biennial and Perennial weed species:
2.0 ℓ/ha Apply before 100 mm in height or the 8 leaf growth stage. Efficacy on weeds like Tall fleabane (*Conyza albida*), Flaxleaf fleabane (*Conyza bonariensis*) and Horseweed fleabane (*Conyza canadensis*) may be variable. Biennial and perennial weeds should be controlled mechanically before planting.
Cyperus esculentus - yellow nutsedge
2.0 ℓ/ha Apply at the three to four leaf stage follow by a 2.0 ℓ/ha (apply 10 - 20 days later).

Note: Read carefully points 1 and 2 above for spray instructions in cotton and maize and point 1 for soybeans.

The following weed species will not be controlled at these recommended rates:
Cynodon dactylon - common quick grass (see below)
Convolvulus arvensis - field bind weed
Oenothera stricta - evening primrose

Panicum maximum - common buffalo grass
Paspalum spp. - common paspalum.
Cynodon dactylon (common quick grass) control:
Spray the plants with **Roundup** or **Roundup Turbo** or **Roundup WeatherMax** at the recommended rate prior to any cultivation shortly before planting the crop. Apply in-crop sprays as for *Cyperus esculentus* (yellow nut sedge) recommended above. A late season spot spray when the crop is mature and drying off is also recommended.

ADDITIONAL INFORMATION AND TANK MIX COMBINATIONS

1. **Pre-Plant, Pre-Plant Incorporated, Pre-Emergent and Post-Emergent treatments**

Cotton
The above recommended **ROUNDUP POWERMAX** herbicide treatments may be applied in cotton varieties which are designated **ROUNDUP READY FLEX** cotton cultivars. When **Roundup Turbo** is applied as a pre-plant treatment or Triflurex 480 EC is applied as a pre-plant incorporated treatment, follow the recommendations on the manufacturer's label. **ROUNDUP POWERMAX** can be applied in a tank mix with **Harness Xtra** when the cotton is between the 5 and 8 leaf growth stage as recommended on the label.

Soybean
The above recommended **ROUNDUP POWERMAX** herbicide treatments may be applied in soybean varieties that are designated **ROUNDUP READY** soybean cultivars. When **Roundup Turbo** is applied as a pre-plant treatment or any residual herbicide is applied as a pre-emergent application or **Apaldor** (**Pantera**) is applied to control volunteer maize plants, follow the recommendations on the manufacturer's label.

Maize
The above recommended **ROUNDUP POWERMAX** herbicide treatments may be applied in maize hybrids that are designated **ROUNDUP READY** maize hybrids. When **Roundup Turbo** or **Apaldor** (**Pantera**) is applied as a pre-plant treatment or **Guardian** or **Bullet** are applied as pre-emergent applications or **Harness Xtra** or 2,4-D amine or MCPA or Cantron 480 SC are applied as a post-emergent application, follow the recommendations on the manufacturer's label.

2. **Tank mixes with ROUNDUP POWERMAX herbicide in ROUNDUP READY Maize**
ROUNDUP POWERMAX herbicide may be tank mixed with **Guardian** for pre-emergent applications, and with **Harness Xtra** or 2,4-D amine or MCPA or Astron 480 SC or Cannone 480 SC or Cantron 480 SC for post-emergent broad-cast (before V8 stage) and post directed (after V8 stage) applications. Follow the manufacturer's recommendations on the label. **ROUNDUP POWERMAX** herbicide should not be tank mixed with Atrazine.

3. **Control of volunteer ROUNDUP READY maize plants**
Apaldor (**Pantera**) can be used on its own or in a tank mix with **Roundup Turbo** to control volunteer **ROUNDUP READY** maize plants and other weeds in a pre-plant situation. **Apaldor** (**Pantera**) can be used on its own or in a tank mix with **ROUNDUP POWERMAX** for the control of volunteer **ROUNDUP READY** maize plant in a **ROUNDUP READY** soybean crop. Follow the manufacturer's recommendations on the label.

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

Product	Reg. No.	Registration holder
Astron 480 SC	L8366	Universal Crop Protection (Pty) Ltd.
Cantron 480 SC	L8365	Villa Crop Protection (Pty) Ltd.
Cannone 480 SC	L8735	Crop Asure (Pty) Ltd.
AMS Super	L9758	Universal Crop Protection (Pty) Ltd.
AMS Granule	L9610	Universal Crop Protection (Pty) Ltd.
Bladbuff 7	L8121	AECI Limited
Bullet®	L5623	Bayer (Pty) Ltd.
Guardian®	L4862	Bayer (Pty) Ltd.
Harness® Xtra	L 7703	Bayer (Pty) Ltd.
Apaldor	L11047	Bayer (Pty) Ltd.
Roundup®	L0407	Bayer (Pty) Ltd.
Roundup® WeatherMax	L8065	Bayer (Pty) Ltd.
Roundup® Turbo	L7166	Bayer (Pty) Ltd.
Triflurex® 480 EC	L5350	Adama South Africa (Pty) Ltd
Velocity Super	L9603	Universal Crop Protection (Pty) Ltd.
Velocity DryMax	L9454	Universal Crop Protection (Pty) Ltd.

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WAARSKUWINGS:

GEVAARSTELLINGS:
- Baie giftig vir waterlewende organismes met langdurige gevolge.

Weerhoudingsperiode: Laat die volgende aantal dae toe tussen laaste bespuiting en oes:
Mielies: Beweiding 28 dae en groenmielies 42 dae.
Hanteer versigtig.
Giftig indien ingesluk word.
Moenie **ROUNDUP POWERMAX**-oplossings meng, berg of toedien vanuit gegalvaniseerde staal- of ongevoeringde houers (behalwe vlekvrye staal) of spuittenks nie, aangesien dit chemies met die staal reageer om waterstofgas te vorm wat hoogs vlambaar 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, oningeligte 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 EFFEKTIWITEIT 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 NADELIGE 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:
- Vermy vrystelling in die omgewing.
- Was hande deeglik na hantering.
- Dra beskermende handskoene/beskermende klere/oogbeskerming/gesigbeskerming.
- INDIEN IN OË: Spoel versigtig met water vir etlike minute. Verwyder kontaklense indien aanwesig en maklik om te verwyder. Hou aan met spoel.

Moenie die spuitnewel of dampe inasem nie.
Dra handskoene en gesigskerm wanneer konsentraat hanteer word.
In die geval van aanraking met die vel of oë moet dit dadelik met baie water gewas word. In die geval van oë, verkry mediese aandag indien nodig.
Moenie eet, drink of rook tydens gebruik of daarna alvorens deeglik gewas en skoon klere aangetrek is nie.
Voorkom die wegdrywing van spuitnewel en/of besoedeling van gevoelige of eetbare gewasse, weiding, en enige ander nie- teikengebied. Dit mag ernstige gewasskade veroorsaak.
Direkte of spuitnewelkontak van **ROUNDUP POWERMAX** met die blare en/of onvolwasse bas van plante kan lei tot gelokaliseerde of getranslokeerde skade.
Moenie drinkwater, eetgerei, voedsel, voer, saad, kunsmis en enige ander landbouchemikalieë besoedel nie.
Spoel leë houer driekeer uit met 'n volume water gelykstaande aan 'n minimum van 10 % van die houer. Gooi die spoelwater by die inhoud van die spuittenk en vernietig dan die houer deur dit stukkend te steek en plat te trap. Moenie vir enige ander doel gebruik nie.
Moet nie blaartoegediende voedingstowwe saam met **ROUNDUP POWERMAX** toedien nie.

RELEVANTE STOWWE:

Formulation component	CAS Number	Conc. (%)
Potassium salt of glyphosate	70901-12-1	48.72
Alcohols, C12-16-alkyl ethers, propoxylated, aminated, ethoxylated	176022-82-5	> 1 – < 10

GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS AANGEDUI.

AANDAG: MET DIE GEBRUIK VAN ROUNDUP POWERMAX ONKRUIDDODER VOLGENS DIE ETIKET AANBEVELINGS WORD DIE VERWAGTING GESKEP DAT DIE ROUNDUP READY MIELIES EN SOJABONE EN ROUNDUP READY FLEX KATOEN NORMAAL SAL GROEI. LET OP DAT VERSKEIE OMGEWINGSTOESTANDE, AGRONOMIESE PRAKTYKE EN ANDER FAKTORE DIT ONTMOONTLIK MAAK OM ALLE RISIKO AANGAANDE HIERDIE PRODUK TE ELIMINEER, SELFS AL WORD TOEDIENINGS VOLGENS DIE ETIKET UITGEVOER. IN SEKERE GEVALLE KAN HIERDIE FAKTORE LEI TOT ONVERWAGTE RESULTATE, INSLUITENDE OES VERLIESE.

AANDAG: HIERDIE PRODUK WORD DEUR BAYER AANBEVEEL VIR NA-OPKOMS GEBRUIK AS 'N ALGEHELE (BO OOR) OF GERIGTE BESPUITING OP VERBETERDE MIELIES, KATOEN EN SOJABOON KULTIVARS MET DIE ROUNDUP READY GEEN. ERNSTIGE SKADE OF DOOD VAN MIELIE-, KATOEN- EN SOJABOONPLANTE SAL VOORKOM AS ENIGE KULTIVARS WAT NIE DIE ROUNDUP READY GEEN BEVAT MET HIERDIE PRODUK BESPUIT WORD.

Algemene inligting:
- **Die effek van ROUNDUP POWERMAX is eers na 4 dae by eenjarige en 7 dae by meerjarige onkruid sigbaar (afhangende van groeitoestande, onkruidgroeistadium en bewerkingspraktyke).**
- **Dien ROUNDUP POWERMAX na opkoms van die onkruid toe. Rig bespuiting op die blare en onvolwasse bas van aktief groeiende onkruide.**
- **MOENIE spuit as die onkruide nat, rustend, onder stremming, met stof bedek of deur ryp beskadig is nie.**
- **Swaar reën of besproeiing kort na toediening mag die effektiwiteit verminder en herbespuiting mag nodig wees. ROUNDUP POWERMAX is reënvas een uur na toediening.**
- **Daar is geen beperking op wisselbougewasse na die toediening van hierdie produk nie, omdat daar geen moontlikheid van onkruiddoder oordrag is nie.**

WEERSTANDSBESTUUR:
ROUNDUP POWERMAX is 'n groepkode G onkruiddoder. Enige populasie van 'n spesifieke onkruid mag individue insluit wat 'n natuurlike weerstand teen **ROUNDUP POWERMAX**, of enige ander groepkode G onkruiddoder, het. Indien hierdie onkruiddoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die onkruid populasie oorheers. Hierdie weerstandbiedende onkruide sal waarskynlik nie deur **ROUNDUP POWERMAX** of enige ander groepkode G onkruiddoder beheer word nie.

Om weerstand teen onkruiddoders te vertraag:
- Vermy die eksklusiewe herhaaldelike gebruik van onkruiddoders met dieselfde groepkode. Wissel af met, of gebruik tenkmengsels van produkte in verskillende onkruiddodergroepkodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in die onkruidbeheerprogram.

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

MENGINSTRUKSIES:
Nota: Gebruik altyd skoon en hoë kwaliteit water vir vermenging en bespuiting.
- **ROUNDUP POWERMAX** meng maklik met water.
- Gebruik altyd skoon water. Voorkom die gebruik van water met 'n hoë kolloiedinhoud, brak of modderige water. Waar alkaliese en/of harde water voorkom, word die byvoeging van ammoniumsulfaat of verwante produk volgens etiket aanbeveel. Analise van die waterbron word aanbeveel om die natrium, kalsium en magnesium katione sowel as die karbonaat en bikarbonaat fraksies te bepaal, omdat pH nie noodwendig 'n goeie aanwyser is of antagonisme sal voorkom tussen die onkruiddoder en die water nie.
- Die gebruik van 'n hoë-kwaliteit ammoniumsulfaatbron, soos Velocity Super, Velocity DryMax, AMS Super of AMS Granule word aanbeveel teen 2%.
- Die spuitwater pH moet in die orde van 5 tot 6.5 wees. 'n Buffer soos Bladbuff 7 moet bygevoeg word om pH reg te stel.
- Die volgorde van meng: voeg eers die ammoniumsulfaat by die water, buffer (indien nodig), **ROUNDUP POWERMAX** en daarna enige tenkmengsel produk soos aanbeveel.
- Tydens meng en bespuiting moet die spuitoplossing aanhoudend geroer word.
- Maak die spuitapparaat onmiddellik na gebruik van hierdie produk skoon deur deeglik met water deur te spoel.
- **ROUNDUP POWERMAX** kan gemeng en gespuit word in 'n mengsel met sekere "EC" en "SL" formulasies. Doen 'n kleinskaal proef mengsel om verenigbaarheid te bevestig voordat grootskaalse bespuiting plaasvind. Alle etiket aanbevelings moet nagekom word.
- Vir die beheer van *Commelina benghalensis* (wandelende Jood), *Convolvulus arvensis* (akkerwinde), *Ipomoea purpurea* (purperwinde) en *Portulaca oleracea* (gewone porselein) SLEGS in **ROUNDUP READY MIELIES,** kan **ROUNDUP POWERMAX** met of 2,4-D amien of MCPA teen aanbevole dossise gemeng word.
- Indien 'n tenkmengsel met 2,4-D amien of MCPA gemaak word, moet geen buffer bygevoeg word nie.
- Moet nie saam met "SC" insekdoder formulasies spuit nie.
- Moenie enige benatter byvoeg nie.
- Moenie in mengsel saam met enige sure soos fulvien-, sitroen-, fosforsuur of enige ander organiese sure gebruik nie.

MENGINSTRUKSIES
SPUITOPLOSSING VIR RUGSAKSPUITE:

Spesifiek vir kolbehandeling van onkruid en persele kleiner as 1 hektaar.

2,0 % spuitoplossing	
Verlangde Water Volume	**ROUNDUP POWERMAX**
5 ℓ 10 ℓ 20 ℓ	100 m 200 m 400 m

TOEDIENINGSINLIGTING:
- Trekkergemonteerde balk- en sleepspuite: **ROUNDUP POWERMAX** onkruiddoder moet toegedien word in 100 - 125 ℓ/ha. Verseker 'n eweredige druppelverspreiding op die onkruidblaaroppervlakte. Vermy oortollige afloop van spuitoplossing vanaf die teiken onkruid. (Teen hoeveelhede van minder as 125 ℓ/ha behoort dit nie 'n probleem te wees nie.)
- Selfaangedrewe spuite: Die watervolume kan verlaag word na 75 ℓ/ha. Beperk spoed tot maksimum van 15 km/h.
- Maak seker dat spuittoerusting skoon en vry is van roes, stof of sediment van ander plaagdoders voor bespuiting plaasvind.
- Kalibreer alle spuite korrek onder veldtoestande.
- Dit word aanbeveel om 'n lae druk van 100 tot 150 kPa saam met lae druk spuitpunte te gebruik om die gewenste watervolume en toedieningshoeveelheid per hektaar te kan spuit.
- Moenie in windsnelhede van meer as 10 km/uur spuit nie.
- Verseker 'n fyn, egalige druppelverspreiding en 'n deeglike bedekking van die teikenonkruide sonder afloop.

ROUNDUP READY FLEX KATOEN

1. **Algehele Toediening**
   Hierdie produk mag gebruik word om die gelysde eenjarige grasse en breëblaaronkruide in **ROUNDUP READY FLEX** katoen te beheer.
   ROUNDUP POWERMAX onkruiddoder kan algeheel tot na die 4de WARE BLAAR/NODE KATOEN GROEISTADIUM in **ROUNDUP READY FLEX** katoen toegedien word. Beste resultate word verkry indien kleiner onkruide bespuit word (kleiner as 100mm hoogte).
   - In gevalle waar 'n opvolgbespuiting gedoen moet word (bv. *Cyperus esculentus*) moet die tweede bespuiting nie binne 10 dae vanaf die eerste bespuiting plaasvind nie. Die tweede bespuiting kan vertraag word na die 4de WARE BLAAR/NODE KATOEN GROEISTADIUM.

Maksimum toelaatbare **ROUNDUP POWERMAX** toedieningshoeveelhede:

• Gesamentlike totaal per seisoen vir alle toedienings	12.4 ℓ/ha
• Voorplant, vooropkomstoedienings	7.7 ℓ/ha
• Totale gewastoediening vanaf grondkraak tot 60% gebarste bolle	9.3 ℓ/ha
• Maksimum voor-oes-toediening- vanaf 60̊% gebarste bolle tot 7 dae voor-oes	3.2 ℓ/ha

Sien aanbevelings onder "Toedieningshoeveelhede".

ROUNDUP READY SOJABONE
1. **Algehele Toediening**
   ROUNDUP POWERMAX-onkruiddoder kan na-opkoms (bo-oor die sojabone) van **ROUNDUP READY** sojabone vanaf die grondkraakstadium tot die blomstadium toegedien word. **Laat 'n mimimum van 14 dae tussen laaste toediening en oes toe.**

Maksimum toelaatbare **ROUNDUP POWERMAX** toedieningshoeveelhede:

• Gesamentlike totaal per seisoen vir alle toedienings	6.7 ℓ/ha
• Voorplant, vooropkomstoedienings	2.0 ℓ/ha
• Totale gewastoediening vanaf grondkraak tot blomstadium	4.7 ℓ/ha
• Maksimum voor-oes-toediening	1.3 ℓ/ha

Sien aanbevelings onder "Toedieningshoeveelhede".

ROUNDUP READY MIELIES

1. **Algehele Toediening**
   Algehele (bo-oor die mielies) **ROUNDUP POWERMAX** onkruiddoder toediening kan slegs gedoen word vanaf die GRONDKRAAKSTADIUM TOT EN MET DIE V8 STADIUM van die mielie. DIE V8 STADIUM WORD BEREIK WANNEER DIE EERSTE PLANTE AGT BLARE HET WAARVAN DIE BLAARSKEDE DIE HOOFSTAM VOLLEDIG OMVOU. Die getal sigbare blare kan egter meer wees. Vermy algehele toedienings indien die plante meganies beskadig kan word deur die toedieningstoerusting. ALGEHELE TOEDIENINGS NA DIE V8 STADIUM KAN LEI TOT OESVERLIESE OF VERTRAAGDE RYPWORDING. Vir die beste resultate gebruik platwaaier of "Twin Jet" spuitpunte wat geskik is vir laer watervolumes. Waar opvolgbespuitings gedoen word om spesifieke onkruide (bv. *Cyperus esculentus*) te beheer, moet die tweede toediening nie binne 10 dae na die eerste toediening volg nie. Indien die mielies teen hierdie stadium reeds die V8 stadium bereik het, moet die opvolgbespuiting gerig gedoen word (sien hieronder).

2. **Gerigte Toediening**
   ROUNDUP POWERMAX bespuitings kan na die V8 stadium gedoen word waar rywydtes die beweging van spuittoerusting toelaat sonder om enige meganiese gewasskade te veroorsaak. Rywydtes van 150 cm en 210 cm sal waarskynlik die beste wees vir trekkergemonteerde spuittoerusting.
   Vir die beheer van sekere breëblaaronkruide soos hierbo verwys word, kan **ROUNDUP POWERMAX** met die aanbevole dosis van of 2,4-D amien of MCPA gemeng en bespuit word.

Sien aanbevelings hieronder by "Toedieningshoeveelhede".

TOEDIENINGSHOEVEELHEDE

Die voorkoms van onkruide in mielies, katoen en sojabone wissel volgens gebied, grondsoort en klimaatsfaktore wat varieer van seisoen tot seisoen. Dit veroorsaak 'n wisselvallige en ongelyke opkoms van 'n verskeidenheid van onkruide op 'n land waar een of meer spesies dominant is. Om hiervoor te kompenseer word toedieningshoeveelhede aanbeveel om 'n breë spektrum van onkruide te dek, mits die toediening plaasvind **voordat** enige van die regopgroeiende spesies (bv. kakiebos) **100 mm oorskry** of platgroeiende spesies (b.v. porselein) die **6 - 8 blaargroeistadium** bereik.

DOSISSE:

A. **Eenjarige grasse en breëblaaronkruide:**
   1.3 ℓ/ha toegedien voor 100 mm hoog of 8 blaar groeistadium.
   1.7 ℓ/ha toegedien tussen 100 en 200 mm hoog of voor die 12 blaar groeistadium.

B. **Onkruide wat 'n opvolgbespuiting en/of verhoogde dosis nodig het vir doeltreffende beheer (Beheer varieer *):**
   * *Commelina benghalensis* - Wandelende Jood
   2.0 ℓ/ha toegedien op 3 blaar stadium opgevolg met
   2.0 ℓ/ha (toegedien 10 - 20 dae later).

   * *Ipomoea purpurea* - Purperwinde
   2.0 ℓ/ha toegedien op 4 - 5 blaar stadium opgevolg met
   2.0 ℓ/ha (toegedien 10 - 20 dae later).

   * *Portulaca oleracea* - Gewone porselein
   2.0 ℓ/ha toegedien voor blom.

   * *Tribulus terrestris* - Gewone dubbeltjie
   1.7 ℓ/ha toegedien voor eerste blomme.

C. **Twee- en Meerjarige onkruide:**
   2.0 ℓ/ha toegedien voor 100 mm hoog of voor die 8 blaar groeistadium. Effektiwiteit teen Vaalskraalhans (*Conyza albida*), Kleinskraalhans (*Conyza bonariensis*) en Kanadese skraalhans (*Conyza canadensis*) kan varieer. Twee- en meerjarige onkruide moet meganies beheer word voor plant.
   Cyperus esculentus - Geeluintjie
   2.0 ℓ/ha toegedien op 3 tot 4 blaar stadium opgevolg met 2.0 ℓ/ha (toegedien 10 - 20 dae later).

Nota: Gee aandag aan punt 1 en 2 hierbo vir aanbevelings in katoen en mielies en punt 1 vir sojabone.

Die volgende onkruidspesies sal nie teen hierdie aanbevole dosisse beheer word nie:
Cynodon dactylon - gewone kweekgras (sien hier onder)
Convolvulus arvensis - akkerwinde
Oenothera stricta - nagblom
Panicum maximum - buffelsgras
Paspalum spp. - paspalum.
Cynodon dactylon (gewone kweekgras) beheer:
Spuit die plante met **Roundup** of **Roundup Turbo** of **Roundup WeatherMax** teen die aanbevole dosis voordat enige voorplant grondbewerking plaasvind kort voor planttyd. Volg die aanbevelings soos hierbo vir die beheer van *Cyperus esculentus* (geeluintjie) binne die gewas. 'n Laatseisoen kolbespuiting sodra die gewas volwasse en besig is om af te droog word aanbeveel.

ADDISIONELE INLIGTING EN TENKMENGSEL KOMBINASIES

1. **Voorplant-, Voorplant ingewerkte, Vooropkoms- en Na-opkomstoedienings**

   Katoen
   Bogenoemde aanbevelings vir die toediening van **ROUNDUP POWERMAX**-onkruiddoder mag gevolg word vir katoenkultivars wat die **ROUNDUP READY FLEX**-geen bevat. Wanneer **Roundup Turbo** as 'n voorplantbespuiting toegedien word, of Triflurex 480 EC as 'n voorplant, ingewerkte toediening aangewend word, moet die verskaffer se etiketaanbevelings nagekom word. **ROUNDUP POWERMAX** kan met **Harness Xtra** volgens etiket aanbevelings toegedien word wanneer die katoen tussen die 5 en 8 blaar groeistadium is.

   Sojabone
   Bogenoemde aanbevelings vir die toediening van **ROUNDUP POWERMAX**-onkruiddoder mag gevolg word vir sojaboonkultivars wat die **ROUNDUP READY**-geen bevat. Wanneer **Roundup Turbo** as 'n voorplantbespuiting toegedien word, as 'n vooropkomstoediening aangewend word, of **Apaldor** (**Pantera**) vir die beheer van opslagmielies, moet die verskaffer se etiketaanbevelings nagekom word.

   Mielies
   Bogenoemde aanbevelings vir die toediening van **ROUNDUP POWERMAX**-onkruiddoder mag gevolg word vir mieliekultivars wat die **ROUNDUP READY**-geen bevat. Wanneer **Roundup Turbo** of **Apaldor** (**Pantera**) as 'n voorplantbespuiting toegedien word, kan of **Guardian** of **Bullet** as 'n vooropkomstoediening aangewend word, of **Harness Xtra** of 2,4-D amien of MCPA of Cantron 480 SC as 'n na-opkomstoediening, moet die verskaffer se etiketaanbevelings nagekom word.

2. **ROUNDUP POWERMAX-onkruiddoder tenkmengsels vir gebruik in ROUNDUP READY mielies**
   ROUNDUP POWERMAX-onkruiddoder mag vooropkoms van mielies in tenkmengsels met **Guardian** toegedien word. Na-opkoms van die mielies kan **Harness Xtra** of 2,4-D amien of MCPA of Astron 480 SC of Cannone 480 SC of Cantron 480 SC in tenkmengsels met die **ROUNDUP POWERMAX**-onkruiddoder toegedien word as algehele (voor V8 stadium) of gerigte bespuitings (na V8 stadium). Raadpleeg die verskaffer se etiketaanbevelings. Tenkmengsels van **ROUNDUP POWERMAX**-onkruiddoder en Atrasien word nie aanbeveel nie.

3. **Beheer van opslag ROUNDUP READY mielies**
   Apaldor (**Pantera**) kan alleen of in 'n tenkmengsel met **Roundup Turbo** gebruik word om opslag **ROUNDUP READY** mielies, asook ander onkruide in 'n voorplantsituasie te beheer. **Apaldor** (**Pantera**) kan alleen of in 'n tenkmengsel met **ROUNDUP POWERMAX** gebruik word om opslag **ROUNDUP READY** mielies in **ROUNDUP READY** sojabone te beheer. Raadpleeg die verskaffer se etiketaanbevelings.

Die volgende handelsmerke en registrasies word erken kragtens Wet No. 36 van 1947

Produk	Reg. Nommer	Registrasiehouers
Astron 480 SC	L8366	Universal Crop Protection (Edms) Ltd.
Cantron 480 SC	L8365	Villa Crop Protection (Edms) Ltd.
Cannone 480 SC	L8735	Crop Asure (Pty) Ltd.
AMS Super	L9758	Universal Crop Protection (Edms) Ltd.
AMS Granule	L9610	Universal Crop Protection (Edms) Ltd.
Bladbuff 7	L8121	AECI Beperk
Bullet®	L5623	Bayer (Edms) Bpk.
Guardian®	L4862	Bayer (Edms) Bpk.
Harness® Xtra	L 7703	Bayer (Edms) Bpk.
Apaldor	L11047	Bayer (Edms) Bpk.
Roundup®	L0407	Bayer (Edms) Bpk.
Roundup® WeatherMax	L8065	Bayer (Edms) Bpk.
Roundup® Turbo	L7166	Bayer (Edms) Bpk.
Triflurex® 480 EC	L5350	Adama South Africa (Edms) Bpk.
Velocity Super	L9603	Universal Crop Protection (Edms) Ltd.
Velocity DryMax	L9454	Universal Crop Protection (Edms) Ltd.

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HERBICIDE

TRANSORB TECHNOLOGY

SEE ENCLOSED PAMPHLET FOR FULL PARTICULARS

Reg. No. L7769 (Act No. 36 of 1947)

A soluble concentrate, non-selective post-emergence for the control of annual and perennial weeds in ROUNDUP READY® maize and soybean and ROUNDUP READY® cotton varieties.

SIEN INGESLOTE PAMFLET VIR VOLLEDIGE BESONDERHEDE

Reg. Nr. L7769 (Wet Nr. 36 van 1947)

'n Oplosbare konsentraat, nie-selektiewe sistemiese na-opkoms onkruiddoder vir die beheer van een- en meerjarige onkruide in ROUNDUP READY® mielie en sojaboon en ROUNDUP READY® katoen kultivars.

GROUP / GROEP	G	HERBICIDE / ONKRUIDDODER

WARNING

HAZARD STATEMENTS:
Very toxic to aquatic life with long lasting effects.
PRECAUTIONARY STATEMENTS:
Avoid release to the environment. 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.

Active ingredient:
Glyphosate (glycine).. 540 g/ℓ
(contains 633 g potassium salt of glyphosate)

Aktiewe bestanddeel:
Glifosaat (glisien).. 540 g/ℓ
(bevat 633 g kaliumsout van glifosaat)

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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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5 411773 167213

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