

User guide

Roundup
UltraMAX
HERBICIDE

The proven herbicide for powerful control of a broad range of weeds in pasture, cropping and horticulture.



It's science not **Stories**

Since its discovery over 40 years ago, glyphosate has continued to be at the forefront of weed control. Roundup® products lead the way, now with Roundup Ultra®MAX, the seventh generation Roundup® liquid. Globally, Roundup® branded products are the number one herbicide used in agriculture, trusted for their quality and

performance. That's why for the last 4 decades, farmers have trusted Roundup® to deliver the results they need. Backed by extensive research and development, Roundup Ultra®MAX offers the technological edge demanded by today's producers.

Roundup Ultra®MAX

The most powerful liquid Roundup® formulation.

- 570 g/litre glyphosate as the potassium salt in the form of a soluble concentrate.
- This powerful formulation provides superior control of tough weeds, meaning less escapes, cleaner spray-outs with fewer drums.



QUALITY HAS NO EQUAL - KEY FEATURES



QUALITY YOU CAN TRUST

Every drum of Roundup Ultra®MAX is manufactured to the highest standards. Bayer controls the manufacturing from start to finish. Tough test protocols for stability, consistency and surfactant ensure the highest quality every time.



RAPID UPTAKE AND BROWNOUT

The powerful surfactant system in Roundup Ultra®MAX ensures rapid penetration into the plant, delivering faster brownout and quicker translocation to the roots.



FLEXIBLE PADDOCK MANAGEMENT

Timing is everything. Roundup Ultra®MAX sprayed paddocks can be grazed (except where ragwort is present), cultivated or drilled just one day after spraying for annual weeds, and three days for perennial weeds. Minimising downtime, this gets your paddocks back into production sooner.



FLEXIBILITY AND EASE OF USE

High load, low viscosity and low foam formulation.



30 MINUTE RAINFAST

(When used with approved penetrant)

The powerful Transorb II surfactant system in Roundup Ultra®MAX delivers fast uptake into weeds, and this is supported by a 30 minute rainfast period, when used with approved penetrant such as Pulse® or Slikka®.



WE'RE WITH YOU IN THE FIELD

The Bayer Sales and Field Solutions Team are with you in the field, supporting you every step of the way.



WHAT'S IN A DRUM - SURFACTANTS MAKE THE DIFFERENCE

Having a high load of glyphosate isn't enough to kill tough weeds effectively. And the salt type is mainly beneficial for compatibility and solubility of glyphosate.

SURFACTANTS MAKE THE DIFFERENCE

- Surfactants are critical to enhance the efficacy of glyphosate, by enabling better penetration into the plant.
- Glyphosate performance relies on the quality of the surfactant.
- Inferior surfactants or a low surfactant to active ingredient ratio may reduce glyphosate uptake or speed of kill.

THE POWER OF TRANSORB II SURFACTANT

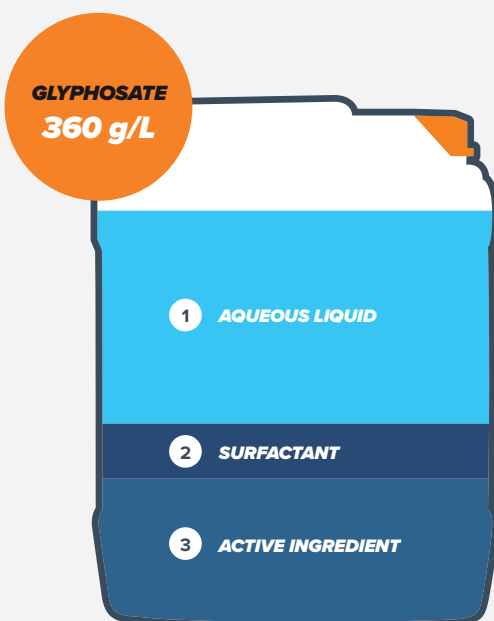
Transorb II is a powerful, new generation surfactant designed exclusively in a concentrated form to deliver outstanding performance.

Roundup Ultra[®]MAX has been designed not to require additional surfactants (with the exception of Pulse[®] / Slikka[®]). In fact it contains one of the highest surfactant loadings in the market, giving it rapid penetration, brownout and improved rainfastness. That's the difference technology makes.

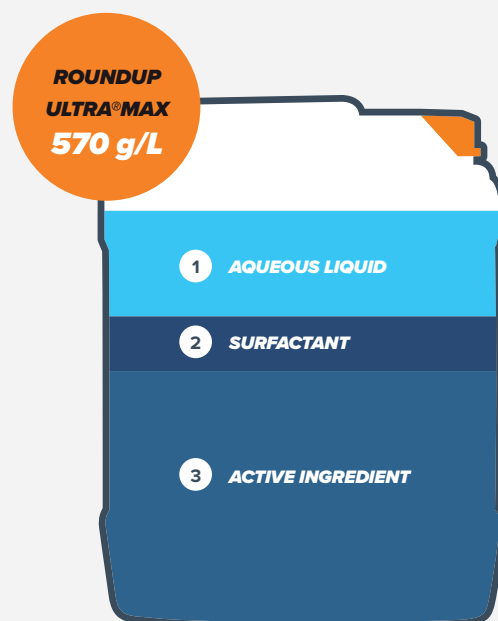
THE SPEED AND EFFICIENCY OF ROUNDUP ULTRA[®]MAX AT PENETRATING THE LEAF SURFACE IS KEY TO ITS OUTSTANDING PERFORMANCE.

Roundup Ultra[®]MAX

WHAT'S IN A DRUM



- 1 Water, antifoam, dye.
- 2 Surfactant, less concentrated and suited to high water rates.
- 3 360 g/L glyphosate present as the isopropylamine salt.



- 1 Water, antifoam dye.
- 2 Exclusive Bayer surfactant system, specifically designed in a concentrated form to deliver performance with high loading potassium salt forms of glyphosate.
- 3 570 g/L glyphosate, present as the potassium salt. Gives you control of tough weeds and cleaner paddocks with fewer drums required.



Maximising the

Performance

PLANT STATUS

Ensure adequate leaf area is present. Allow weeds to freshen after grazing. Avoid treating target plants that are affected by drought, frost, waterlogging or heavy grazing as Roundup Ultra®MAX will not be absorbed as effectively.

PLANT STRESS

Extreme climatic conditions such as heat and drought will induce stress on weeds. Weeds will consequently shut down, making the penetration and translocation of herbicide difficult. Only spray actively growing weeds using rates based on weed age and size.

RATE SELECTION

Identify target plant species and choose the required rate by referring to the label. Be aware of false breaks, where plants have germinated and ceased growing. These weeds may appear small on the surface but have developed large root systems to chase moisture.

DUST AND WHEEL TRACKS

Dust will de-activate glyphosate; do not apply Roundup Ultra®MAX to dust covered plants. Adjust to a slower speed when applying in dusty paddocks to avoid covering target leaf surfaces.

APPLICATION RECOMMENDATIONS

| USAGE RATE | WITHHOLDING PERIODS |
|--|---|
| Annual Weeds (seedlings): 0.625 – 1.23 L/ha For full table of usage rates – see label | Grazing Stock: A withholding period for grazing stock is not required (except where ragwort is present). Recommendation is to delay grazing or cultivating for one day after treatment for annual weeds, and three days if perennial weeds are present to ensure absorption of Roundup Ultra®MAX. Where ragwort is present, wait for brownout to occur before allowing grazing. |
| WATER RATE | APPLICATION |
| Roundup Ultra®MAX is absorbed more efficiently by the leaf in higher concentrations. Recommended water rate is 100-200 L/ha for broadcast boom applications. Application should provide water for complete coverage, but not too much to dilute solution or cause run-off. | For broadcast boom application flat fan nozzles (110 degrees) using pressure of 200 – 280 kPa are preferred. Ensure boom height is set to allow a double overlap of the spray pattern at the top of the weed canopy. |
| RAINFASTNESS | WATER pH |
| 30 minutes when Pulse® or Slikka® Penetrant is added. Rainfall occurring before two hours after application may reduce effectiveness, in the absence of Pulse® or Slikka®. | Roundup Ultra®MAX works most efficiently in water with a pH range of 4 – 8. Use suitable buffer for pH levels outside this range. |
| ADJUVANTS / SURFACTANTS | COMPATIBILITY |
| Surfactants - Roundup Ultra®MAX is fully loaded with surfactant – additional surfactant is not generally required. Adjuvants such as Pulse® and Slikka® may be added. | Roundup Ultra®MAX is compatible with a range of herbicides and insecticides. Consult your merchant representative for more information. |



TANK MIXING AND WATER QUALITY

Roundup Ultra[®]MAX

TANK MIXING ORDER



STEP 1

- Fill the spray tank to at least 50%.
- Commence agitation.



STEP 2

- Add any water conditioners (avoid dirty water).
- Hard water - Ammonium Sulphate (2%).
- Doing a tank mix? Follow the additional steps below.



STEP 3

- Add Roundup Ultra[®]MAX.



STEP 4

- Fill the spray tank with water and go.
- Note: Roundup Ultra[®]MAX is fully loaded so generally does not require additional surfactant or adjuvants which would normally be added at step 4.

WATER HARDNESS

Hardness is usually a result of calcium (Ca) and magnesium (Mg) in water and is often shown as parts per million (ppm) of calcium carbonate (CaCO₃). High levels (greater than 250 ppm) can decrease glyphosate activity. If using hard water add ammonium sulphate prior to adding Roundup Ultra[®]MAX.

TANK MIXING WITH OTHER PRODUCTS

When tank mixing additional products with Roundup Ultra[®]MAX, the following order is recommended prior to commencing STEP 3.

- With agitation active, add any WG (Water Dispersible Granule) or dry flowable products – allow at least 10 minutes for complete dispersion.
- Add any SC (Suspension Concentrate) products.
- Add any EC (Emulsifiable Concentrate) products.
- Add any SL (Soluble Concentrate) products.

CONVERSION CHART

| | | | | |
|--|-------|-------|-------|-------|
| GLYPHOSATE 360 | 3.0 L | 4.0 L | 6.0 L | 9.0 L |
| GLYPHOSATE 470 | 2.3 L | 3.1 L | 4.6 L | 6.9 L |
| GLYPHOSATE 540 | 2.0 L | 2.7 L | 4.0 L | 6.0 L |
| CRUCIAL [®] 600 | 1.8 L | 2.4 L | 3.6 L | 5.4 L |
| ROUNDUP ULTRA [®] MAX 570 g/L | 1.9 L | 2.5 L | 3.8 L | 5.7 L |

Regional Business Managers & Market Development Agronomist

Upper North Island

Phil Bertram
Regional Business Manager
021 426 825

Gisborne and Hawke's Bay

Marc Fox
Customer Market Manager
021 426 823

Lower North Island / Nelson / Marlborough

Susie Dalgety
Regional Business Manager
021 426 824

North and Mid Canterbury

David Parker
Regional Business Manager
021 760 794

Mid and South Canterbury

David Weith
Regional Business Manager
021 426 096

Otago and Southland

Daniel Suddaby
Regional Business Manager
021 426 822

New Zealand

Jonathon Shields
Market Development Agronomist
021 540 298



INSIST ON
Roundup Ultra[®]MAX

We're with you in the field

Roundup Ultra[®]MAX is registered pursuant to the ACVM Act 1997, No. P8725 and approved pursuant to the HSNO Act 1996, No. HSR100587. Roundup Ultra[®] is a registered trademark of the Bayer Group. Slikka[®] is a registered trademark of ETEC Crop Solutions Limited. Pulse[®] is a registered trademark of Nufarm Technologies, USA.

© Bayer New Zealand 2020

Disclaimers: Before using the products read and carefully observe directions, cautionary statements and other information appearing on the product label. Our technical information, whether given verbally or in writing, is based on extensive testing. It is, to the best of our current knowledge, true and accurate, but given without warning in as much as the conditions of use and storage are beyond our control. Descriptions and property data of the product do not contain any statement as to the liability for possible damage.

In other respects our conditions of sale apply.