

# CAUTION

**KEEP OUT OF REACH OF CHILDREN  
READ SAFETY INSTRUCTIONS BEFORE OPENING OR USING**

# Roundup PowerMAX™

*Herbicide by Monsanto*

ACTIVE CONSTITUENT : 540 g/L GLYPHOSATE  
(present as the Potassium salt)

GROUP	<b>M</b>	HERBICIDE
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Non selective herbicide for the control of many annual and  
perennial weeds

**READ THE ATTACHED BOOKLET BEFORE USING THIS PRODUCT**

**N (Nufarm logo)**

Distributed by  
Nufarm Australia Limited ACN 004 377 780  
103-105 Pipe Road, Laverton North, VIC 3026  
Tel: (03) 9282 1000 Fax: (03) 9282 1001

**Barcode**

**CONTENTS**

**5, 10, 15, 20, 55, 110, 115, 200,  
400, 450, 1000 LITRES**

Batch no. :      Date of manufacture :

# Roundup PowerMax™

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(present as the Potassium salt)

### **DIRECTIONS FOR USE**

For specific rates of application and complete directions for use, please read Direction for Use table following.

### **SAFETY DIRECTIONS**

Will irritate eyes and skin. Avoid contact with eyes and skin. If product in eyes, wash it out immediately with water. If product on skin, immediately wash area with soap and water. Wash hands after use. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, elbow length PVC or nitrile gloves and face shield or goggles. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

### **FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre (Ph: 13 1126).

### **STORAGE AND DISPOSAL**

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Do not contaminate seed, feed or foodstuff. Do not re-use container for any purpose. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush or puncture and bury containers in a local authority landfill. If no landfill is available bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. **For REFILLABLE containers :** Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

### **CONDITION OF SALE**

Nufarm Australia Limited ("Nufarm") shall not be liable for any loss, injury, damage or death whether consequential or otherwise whatsoever, or howsoever arising through negligence or otherwise in connection with the sale, supply, use or application of this product. The supply of this product is on the express conditions that the purchaser does not rely on

Nufarm's skill or judgement in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Nufarm has any authority to alter these conditions.

Drum muster logo

**APVMA Approval No. 55687/0704**

ONLY IN EMERGENCY  
**CALL 1 800 033 498 ALL HOURS**  
Refer to Material Safety Data Sheet

**For Technical enquiries**  
**phone 1800 639 899**

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Drum Muster Logo

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## DIRECTIONS FOR USE

**Restrictions:** To ensure herbicide absorption, do NOT disturb weeds by cultivation, sowing or grazing for six hours following treatment of annual weeds and seven days for perennial weeds, unless specified otherwise in critical comments.

### CONSERVATION TILLAGE

SITUATION	WEEDS CONTROLLED	BOOM RATE / HA	CRITICAL COMMENTS
SOUTHERN AUSTRALIA Prior to sowing a crop or pasture with full soil disturbance by cultivation or sowing with a tined instrument	Barley grass Brome grass Wild oats Volunteer cereals	<b>320 – 630 mL</b> pre-tillering <b>630- 810 mL</b> post- tillering	<b>Rate Selection</b> Use higher rates for advanced weed growth or when treating under cold/overcast conditions. Cultivation or planting may proceed from 1 hour after application to seedling annual weeds if a satisfactory seedbed can be created for crop germination and seedling establishment.  <b>Perennial Weeds.</b> ROUNDUP PowerMax will provide seasonal control and reduction in plant numbers Control of Skeleton weed requires addition of full soil disturbance at planting.
	Annual phalaris Annual ryegrass Silvergrass Winter grass	<b>630 – 810 mL</b> pre-tillering <b>810-990 mL</b> post- tillering	
	Calomba daisy Capeweed Doublegee/Spiny emex Fumitory Volunteer lupins Volunteer peas	<b>320-630 mL</b> less than 8 cm diam/ height <b>630-990 mL</b> greater than 8 cm diam/ height	
	Amsinckia Dock (seedling) Paterson's curse Saffron thistle Scotch thistle Spear thistle Variegated thistle Wild turnip	<b>630 –810 mL</b> less than 12 cm diam/ height <b>810-990 mL</b> greater than 12 cm diam/ height	
	Perennial phalaris Skeleton weed Sorrel Sub clover	<b>990 mL</b>	

SITUATION	WEEDS CONTROLLED	BOOM RATE/HA	CRITICAL COMMENTS
SOUTHERN AUSTRALIA To commence a fallow prior to planting a crop or pasture with an implement that gives minimal soil disturbance or prior to surface seeding of pastures	Barley grass Canary grass Wild oats Volunteer cereals	<b>630 – 990 mL</b>	<p><b>Rate Selection</b> Use the lower rate on young weeds; increase to the higher rate where grasses reach full tillering or where broadleaf weeds commence stem elongation or budding. Use higher rates in spring and under cold conditions. In Tasmania use 1- 2.1L/ha with the higher rate for control of perennial weeds.</p> <p><b>Pasture or Crop Establishment</b> Do not sow into excessive trash. Excessive plant residues may be removed by grazing after treatment. Planting may proceed from 1 hour after application to seedling annual weeds if a satisfactory seedbed can be created for crop germination and seedling establishment.</p> <p><b>Aerial (or Surface) Seeding</b> Delay seeding until trash level is reduced to allow for satisfactory placement of broadcast seed on the soil surface.</p> <p><b>Bentgrass</b> Use a rate of 1.7 L/ha. Apply in late spring following initiation of seed-head emergence. Follow up with full disturbance with a tined implement 10-21 days after spraying.</p> <p><b>Couch</b> Use the higher rate on dense infestations. Apply sequential treatments during summer and autumn. Repeat applications will be required for full control. For improved control, use in conjunction with cultivation</p> <p><b>Dock, flatweed</b> Use the maximum rate for full control.</p> <p><b>Hoary cress</b> Use at a rate of 1 L/ha. Treat from late rosette to early flowering.</p> <p><b>Kikuyu, paspalum</b> Use the low rate for suppression, the high rate for control.</p> <p><b>Silvergrass</b> When treating dense infestations of silvergrass, add Wetter TX and use water volumes of 70L/ha or more and small droplets to improve coverage.</p> <p><b>Soursob</b> Use at a rate of 1 L/ha. Treat at tuber exhaustion.</p>
	Annual ryegrass Brome grass Capeweed Hoary Cress Paterson's curse Saffron thistle Scotch thistle Silvergrass Soursob Spear thistle Variegated thistle Wild mustard Wild radish Wild turnip Winter grass	<b>905 – 1370 mL</b>	
	Bentgrass Couch Dock Erodium Flatweed Kikuyu Plantain Paspalum Perennial- Phalaris Sorrel Sub. clover Yorkshire fog	<b>1275 – 1985 mL</b>	
	Poa tussock	<b>1985 – 2740mL</b>	
Pasture topping	Annual ryegrass	<b>320 – 680 mL</b>	<p>Remove livestock prior to application to allow even regrowth. Use lower rate if grasses are flowering and higher rate if at the milky dough stage. Apply to capeweed and calomba daisy at flowering. Do not add Wetter TX. Do not apply to clover or medic crops intended for seed production.</p>
	Barley grass Brome grass Capeweed Silvergrass	<b>200 – 320 mL</b>	
	Calomba daisy	<b>320 mL</b>	
Seed-head suppression	Bentgrass	<b>255 – 415 mL</b>	Apply treatments late October to late November, before seedheads have emerged. Add Wetter TX. Use the higher rate where growth is excessive. Graze hard after spraying.

SITUATION	WEEDS CONTROLLED	BOOM RATE/HA	CRITICAL COMMENTS
<p>SOUTHERN AUSTRALIA</p> <p>NSW, Vic, Tas only</p> <p>For control/suppression prior to establishing crops or improved pasture species</p>	<p>Serrated Tussock</p>	<p><b>2740– 4060 mL</b></p>	<p>Apply to actively growing and stress free plants. Best results May to October.</p> <p><b>Application:</b> Boom spray volume of 70 L/ha or more is recommended to improve plant coverage. Also see <b>Aerial Equipment</b>.</p> <p><b>Surfactants:</b> Addition of 200 mL of Wetter TX to 100 L of spraying solution may improve control of serrated tussock.</p> <p><b>Site Preparation: Burning</b> of serrated tussock 10-12 months before spraying or <b>slashing / heavy grazing</b> (cell grazing) 2 weeks before spraying is essential for good results (<b>Note:</b> serrated tussock is almost indigestible and prolonged exposure can lead to starvation and death of stock.).</p> <p><b>Rates:</b> Use lower rate on serrated tussock regrowth after burning (no residual dead foliage). Use higher rate on serrated tussock that has been slashed or grazed (may contain some residual dead foliage).</p>
<p>For prevention of seed head emergence and seed formation</p>	<p>Serrated Tussock</p>	<p><b>455 - 905 mL</b></p>	<p>Apply to actively growing and stress free plants. Best results obtained during mid September – mid October. Apply prior to any seed head emergence. Also see <b>Aerial Equipment</b>.</p> <p><b>Surfactants:</b> Addition of 200 mL of Wetter TX to 100 L of spraying solution may improve results.</p> <p><b>Rates:</b> The lower rates will be less damaging to desirable pasture species. If seed head emergence is imminent then higher rates will give better results</p>

SITUATION	WEEDS CONTROLLED	BOOM RATE /HA	CRITICAL COMMENTS
<b>NORTHERN AUSTRALIA</b>  In fallow or prior to planting a crop.  Cotton : Shielded Sprayers	Paradoxa grass Volunteer cereals Wild oats	<b>320 – 630 mL</b>	<b>Rate Selection</b> Use the lower rates on young weeds and increase to the higher rate where weeds are dense or well developed. Dense infestations of Some weeds e.g. Barnyard grass, Liverseed (Urochloa) grass may need follow up treatments for complete control.
	African Turnip weed Black pigweed Boggabri weed Caltrop (Yellow vine) Columbus grass Deadnettle Mintweed Milk (sow) thistle New Zealand Spinach Stinkgrass (Lovegrass) Sweet Summer grass Variegated thistle Volunteer sorghum	<b>455- 630 mL</b> up to 5 true leaves or 3 cm in dia/height  <b>630 – 1275 mL</b> greater than 5 true leaves or 3 cm in dia/height	<b>Tank Mixtures</b> Read and follow all label directions, restraints, plant-back and withholding periods, regional use restrictions and safety directions for the tank mix products. Tank mixes with atrazine may give unacceptable knockdown control of certain weeds. Do not apply the tank-mix for control of barnyard grass, liverseed grass or milk thistle. Ammonium sulphate may enhance knockdown weed control where tank mixtures of atrazine are used.
	Annual ground cherry Barnyard grass, Bladder ketmia, Button grass, Camel (Afgan) melon, Caustic Weed, Liverseed grass, Mexican poppy, Native Millet, Noogoora burr Pigweed (up to 25cm diam.), Spear thistle, Thornapple (Datura), Turnip weed, Wild/Prickly lettuce, Wireweed	<b>630 – 1275 mL</b>	<b>Shielded Sprayers</b> Apply Roundup® PowerMax to weeds growing between crop rows using a shielded sprayer. Do not apply in cotton less than 20 cm high. Do not allow spray or spray drift to contact any part of the cotton plant as severe injury may result.  <b>Pasture or crop establishment</b> Do not sow into excessive trash. Excessive plant residues may be removed by grazing after treatment. Cultivation or planting may proceed from 1 hour after application to seedling annual weeds if a satisfactory seedbed can be created for crop germination and seedling establishment.
	Prickly Paddy melon	<b>640– 1275 mL</b> plus <b>80 mL</b> Garlon 600	DO NOT add crop oil.
	Climbing buckwheat (less than 12 leaves) Couch Johnson grass	<b>1275 – 1795 mL</b>	Use the higher rate on plants at the flowering/seedhead stage. For Johnson grass apply to plants with a minimum of 30cm new growth. For long term control of Couch and Johnson grass, repeat applications will be required.
	Nutgrass ( <i>Cyperus rotundus</i> )	<b>1795 mL</b> followed by <b>1795 mL</b>	Make first application to actively growing plants when the majority of plants have reached at least the 6-8 leaf stage but preferably later. Allow for maximum re-emergence before retreating.
	<b>SUGAR CANE</b> Ratoon spray out Qld, NSW only	Sugar cane ratoon regrowth	<b>2645– 6045mL</b>

## DIRECTIONS FOR USE

### PRE AND POST HARVEST USES

SITUATION	WEEDS CONTROLLED	BOOM RATE / HA	CRITICAL COMMENTS
Sorghum control	Grain-sorghum (pre-harvest)	<b>905 – 1275 mL</b>	DO NOT apply if crop is under stress from low moisture, frost, cold or waterlogging. Apply when grain moisture is less than 25%. Use the higher rate where the crop has produced significant number of late tillers or where following crops will be established without further treatment. Do not apply to crops intended for seed production. Treatment may increase potential for crop lodging.
	Grain-sorghum (post-harvest)	<b>800 – 1275 mL</b>	Slashed/grazed stubble. Apply when fresh regrowth is at least 20cm high. Use the higher rate on standing stubble or where re-growth from slashed sorghum has advanced beyond 50 cm in height.
Cotton pre-harvest	Bathurst burr Noogoora burr Winter annual weeds	<b>905 – 1795 mL</b>	Treatments may be applied alone or in a tank mix with Dropp or Harvade. Apply when 60% of bolls are open. When tank mixed with conditioner/defoliant treatments, a slightly higher proportion of cotton leaf may be retained particularly where higher rates are used and conditions are unfavourable for defoliation.
PRE-HARVEST APPLICATION to reduce viable seed set of weeds in:  Field Peas ( <i>Pisum sativum</i> ) Faba Beans ( <i>Vicia faba</i> )	Annual ryegrass ( <i>Lolium rigidum</i> )	<b>320 – 680 mL</b>	Use lower rate if Ryegrass is flowering and higher rate if Ryegrass is at milky dough stage.  Application should be made at or after crop maturity. Application before this time may significantly reduce yields (in practice losses in excess of 25% can occur).  Apply when the average seed moisture content is below 30%. For Faba Beans, this is indicated by the pods going black, and for Field Peas by the pods going yellow.  Do not harvest within 7 days after application. Do not use on crops intended for seed or sprouting.
PRE-HARVEST APPLICATION as harvest aid and weed control:  Wheat ( <i>Triticum aestivum</i> )	Annual weeds	<b>905 – 1795 mL</b>	Apply to mature crop from late dough stage (28% moisture) onwards. The higher rate will be required when crops are heavy and leaf shading effects may occur.  Do not harvest within 7 days after application. Do not use on crops intended for seed or sprouting.  Where wheat is grown in rotation with any herbicide tolerant crop, management should be consistent with implementation of any management plan for herbicide tolerant crops.

SITUATION	WEEDS CONTROLLED	BOOM RATE / HA	CRITICAL COMMENTS
<p>PRE-HARVEST APPLICATION</p> <p>To desiccate a crop as a harvest aid and weed control</p> <p>ADZUKI BEANS</p> <p>CHICKPEAS</p> <p>COWPEA</p> <p>FABA BEANS</p> <p>FIELD PEAS</p> <p>LENTILS</p> <p>MUNGBEANS</p> <p>SOYBEAN</p> <p>(Not to be applied for crops intended for seed or sprouting)</p>	Annual Weeds	<b>680 mL – 1.8 L</b>	<p>Apply with boom or by air. Use higher rates where crops or weeds are dense and where faster desiccation is required. Application should be made at or after crop maturity:</p> <p>Chickpeas and Lentils-apply when physiologically mature and less than 15% green pods.</p> <p>Soybean-apply only after seed pods have lost all green colour and 80-90% of leaves have dropped. Use only on soybean crops grown for crushing.</p> <p>Mungbeans/ Adzuki and Cowpea- apply to mature crops when pods are brown/black</p> <p>Field peas- apply when seeds turn yellow and average seed moisture content is below 30%.</p> <p>Faba beans-apply when pods turn black and average seed moisture content is below 30%.</p> <p><b>Do not harvest within 7 days of application. Speed of crop desiccation is dependant on crop stage, growing conditions and weather conditions during and after application.</b></p>

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION

**WITHOLDING PERIODS:**

CEREALS AND LEGUMES: DO NOT HARVEST, GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.

ALL OTHER USES: NOT REQUIRED WHEN USED AS DIRECTED.

## DIRECTIONS FOR USE

<b>SITUATION</b>	<b>CRITICAL COMMENTS</b>
	READ APPLICATION CHECKLIST BEFORE USING
<b>GENERAL WEED CONTROL</b> FOR GENERAL WEED CONTROL IN DOMESTIC AREAS (HOME GARDENS), COMMERCIAL, INDUSTRIAL AND PUBLIC SERVICE AREAS, AGRICULTURAL BUILDINGS AND OTHER FARM SITUATIONS. FOR SPECIFIC WEEDS REFER TO THE APPROPRIATE WEEDS CONTROLLED TABLE	For the control of many grasses and broadleaf weeds. <b>RATE: 6.5 mL per litre of water</b> Apply when weeds are actively growing. Apply to ensure complete and uniform wetting of foliage. Visible symptoms may take from 3 to 7 days to develop.
<b>AGRICULTURAL AREAS</b>	Roundup PowerMax may be used for control of annual, perennial and woody weeds as directed, in agricultural land prior to sowing of any edible or non-edible crop, but not prior to transplanting tomato seedlings.
<b>DRY DRAINS AND CHANNELS ONLY</b>	DO NOT apply to weeds growing in or over water. DO NOT spray across open bodies of water, and do not allow spray to enter the water. DO NOT allow water to return to dry channels and drains within 4 days of application.
<b>FORESTS</b>	Roundup PowerMax may be used prior to establishment of nurseries, for site preparation prior to planting and amongst established trees using a directed or shielded spray, or using selective wiper equipment. Do not allow wiper surface to contact any part of the tree. DO NOT allow spray or spray drift to contact foliage or green bark of desirable trees, since severe injury may result.
<b>NON- AGRICULTURAL AREAS</b>  AROUND BUILDINGS, COMMERCIAL AND INDUSTRIAL AREAS, DOMESTIC AND PUBLIC SERVICE AREAS, RIGHT-OF-WAYS.	Roundup PowerMax does not provide residual weed control. For residual control of annual weeds, Roundup PowerMax may be tank mixed with certain residual herbicides. See <b>Tank Mixtures/Compatibility</b> .
<b>TREE AND VINE CROPS</b>  AVOCADO, BANANA, BLUEBERRIES, CITRUS FRUITS, CUSTARD APPLES, DUBOISIA, FIGS-DESSERT, GUAVA, KIWIFRUIT, LITCHI, MANGO, MONSTERA-FRUIT, NUTS (INCLUDING ALMOND, PECAN, MACADAMIA, PISTACHIO AND WALNUT), OLIVES, PAWPAW, PERSIMMONS, POME FRUIT, RASPBERRIES, STONE FRUIT, TEA, VINEYARDS.	Apply as a directed or shielded spray or using wiper equipment. Do NOT apply as a spray near trees or vines less than 3 years old unless they are effectively shielded from spray and spray drift. Do NOT allow wiper surface to contact any part of the tree, vine or palm. <b>Citrus fruit, Nuts, Olives, Pome fruit &amp; Vineyards</b> Do NOT allow spray or spray drift to contact green bark or stems, canes, laterals, suckers, fresh wounds foliage or fruit. <b>Tea</b> Apply a maximum of 3.2L/ha by shielded boom or directed off-centre nozzle or 0.4/100L by directed hand-gun or knapsack to avoid application to the crop. <b>All other crops</b> Do NOT allow spray or spray drift to contact any part of the plant including the trunk. CAUTION Where split bark on Kiwifruit and green stems on Pawpaw occur, extreme care is required.

WEEDS CONTROLLED	BOOM RATE / HA	CRITICAL COMMENTS
<p><b>ANNUAL WEEDS</b></p> <p>Amaranth, Barley grass, Brome grass, Barnyard grass, Caltrop, Canary grass, Capeweed, Chickweed, Cobblers peg, Deadnettle, Doublegee, Fumitory, Ground cherry, Hedge mustard, Lesser swinecress, Liverseed grass, Mintweed, Noogoora burr, Paradoxa grass, Paterson's curse, Pigweed, Potatoe weed, Ryegrass, Saffron thistle, Silvergrass, Sow thistle, Spear thistle, Spiny burrgrass, Spurge, Sub clover, Thornapple, Wild mustard, Wild oats, Wild turnip, Winter grass, Variegated thistle, Volunteer cereals</p>	<p><b>Boom:</b> 1320 – 1985 mL/ha</p> <p><b>Handgun:</b> 330 – 500mL per 100L</p> <p><b>Knapsack:</b> 50-60 mL per 15L</p>	<p>Apply to weeds whenever they are not subject to stress due to drought or frost. Use higher rate on weeds over 15cm in height or diameter or where dense weed cover limits spray coverage. Use higher spot spraying rate when applying less than 5L spray per 100sqm. Roundup PowerMax does not provide residual weed control. Repeat treatments may be necessary to control later germinating weeds.</p> <p>For residual control of annual weeds Roundup PowerMax may be tank-mixed with certain residual herbicides. See <b>Tank Mixtures</b> in the General Instructions for directions. Do not use an atrazine tank-mix for control of barnyard grass or liverseed grass.</p>
<p><b>PERENNIAL WEEDS</b></p> <p>Artichoke Thistle, African Lovegrass, Bent grass, Carpet Grass, Cocksfoot, Flatweed, Johnson Grass, Kangaroo grass, Kikuyu, Nutgrass (<i>Cyperus rotundus</i>), Paspalum, Phalaris, Plantains, Poa Tussock, Prairie Grass, Qld Blue grass, Red-leg grass, Rhodes Grass, Rope Twitch, Sorrel, Soursob, Yorkshire Fog</p>	<p><b>Boom:</b> 1890 – 4060 mL/ha</p> <p><b>Handgun:</b> 330 – 660mL per 100L</p> <p><b>Knapsack:</b> 50-100 mL per 15L</p>	<p>Control of established perennials is best obtained when plants are at the seedhead stage. In general best control of winter growing perennials is obtained with application during winter-spring. Best control of summer growing perennials is obtained with application late summer and autumn. For Nutgrass in cultivated situations apply sequential treatments when Nutgrass has a minimum of 6-8 leaves. Use the higher rate in uncultivated situations. For Rhodes grass and Rope twitch, use the higher boom rate only.</p>
<p>Blady grass, Bracken, Couch, Guinea grass, *Paragrass, Silverleaf Nightshade, *Water couch *Use on Dry Drains and Channels ONLY (see Use Situations critical comments above)</p>	<p><b>Boom:</b> 5855mL/ha</p> <p><b>Handgun:</b> 870mL or 1320mL per 100L</p> <p><b>Knapsack:</b> 130 or 200 mL per 15L</p>	<p>For Bracken add Pulse at 200mL/100L spray mix.</p> <p>Best control of couch in WA and SA is obtained with spring treatment. Most effective control of couch in eastern states is obtained with summer and autumn treatments.</p> <p>In cultivated situations use sequential treatments of 1.9 - 4.3 L/ha for control. Use higher rate only for Silverleaf Nightshade.</p>

WEEDS CONTROLLED	BOOM RATE / HA	CRITICAL COMMENTS
<b>WOODY WEEDS</b> Bamboo, Bitou bush, Boneseed, Boxthorn, Crofton weed, Gorse, Groundsel bush, Lantana, Mistflower	<b>Handgun:</b> 330 – 660mL per 100L <b>Knapsack:</b> 50-100mL per 15L	Apply to actively growing plants. Do not apply to drought stressed plants. Further treatment may be necessary to restrict seedling re-establishment. Bamboo, apply when foliage/regrowth is 1-2m tall. Bitou bush/Boneseed, apply higher rate on bushes >1.5m Groundsel bush, apply higher rate on bushes >2m Gorse, <b>always add Pulse</b> at 200mL/100L of spray mix. Lantana, burning (after complete brownout), pasture improvement or further treatment are recommended to control seedlings and/or regrowth. Addition of Pulse (200mL/100L) may improve control.
Blackberry, Chinese scrub, Eucalyptus spp. (seedlings <2m), Hawthorn, Pampas grass, Sifton bush, Sweet Briar, Willow (<2m)	<b>Handgun:</b> 660mL – 870mL per 100L <b>Knapsack:</b> 100-130 mL per 15L	Apply to actively growing plants. Burning (after complete brownout), pasture improvement or further treatment are recommended to control seedlings and/or regrowth. <b>Blackberry</b> , apply from flowering to leaf fall, use higher rate on old dense infestations >2m high. , In Tasmania, do not treat bushes bearing mature fruit. <b>Chinese scrub</b> , use higher rates on bushes >1m. <b>Eucalyptus spp.</b> , add Pulse at 200mL/100L of spray mix. <b>Hawthorn</b> , apply from flowering to leaf fall, use higher rates on bushes >2m <b>Pampas grass</b> , allow regrowth to reach 1m, best results-apply after flowering <b>Sifton bush</b> , use higher rates on bushes >1m. <b>Sweet Briar</b> , apply from late flowering to leaf fall, use 1060-1400mL/100L, use higher rates on bushes >1.5m

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION**

**WITHHOLDING PERIODS:**

**CEREALS & PULSES: DO NOT HARVEST, GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.**

**ALL OTHER USES: NOT REQUIRED WHEN USED AS DIRECTED.**

**PRODUCT INFORMATION**

ROUNDUP PowerMax is a non-volatile, non selective, water soluble liquid herbicide for the control of annual and perennial grasses and broadleaf weeds in a wide range of agricultural and non-agricultural use situations. ROUNDUP PowerMax may be used for weed control on agricultural land prior to planting any edible or non edible crop but not prior to transplanting tomatoes. When applying this product prior to transplanting crops into plastic mulch, care much be taken to remove residues of this product from the plastic prior to transplanting. Residues can be removed by 2cm of natural rainfall or by applying water via a sprinkler irrigation system.

ROUNDUP PowerMax is absorbed by plant foliage and green stems. It is inactivated on clay and organic matter in soil and does not provide residual weed control. ROUNDUP PowerMax moves throughout the plant from the point of contact to and into the root system. Initial visible effects on annual weeds take 3-7 days but may not be noticeable for 2 to 3 weeks under cool cloudy conditions or on some perennial weeds.

**RESISTANT WEEDS WARNING**

ROUNDUP PowerMax is a member of the Glycines group of herbicides. ROUNDUP PowerMax has the inhibition of EPSP synthase mode of action. For weed resistance management ROUNDUP PowerMax is a Group M herbicide.

Some naturally occurring weed biotypes resistant to ROUNDUP PowerMax and other inhibitors of EPSP synthase mode of action herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by ROUNDUP PowerMax or other inhibitors of EPSP synthase herbicides. Since the

occurrence of resistant weeds is difficult to detect prior to use, Monsanto accepts no liability for any losses that may result from the failure of ROUNDUP PowerMax to control resistant weeds.

#### **CROP ESTABLISHMENT**

ROUNDUP PowerMax is recommended for control of emerged weeds prior to crop establishment. Cultivation and/or planting operations which provide conditions suitable for crop emergence and establishment are required following herbicide application. Where heavy weed growth is present or soil conditions are unsuitable, planting should be delayed to allow for decay of weeds and/or development of more favourable soil conditions for the formation of a suitable seedbed. Incorporation of green or decaying vegetation may retard crop emergence under cold, wet conditions. Vegetation may be reduced by grazing and weed decay may be assisted by cultivation to leave trash on the surface.

#### **MIXING**

ROUNDUP PowerMax mixes readily with water. Reduced results may occur if water is used containing; suspended clay or organic matter e.g. from dams, streams and irrigation channels, or high levels of calcium, magnesium or bicarbonate ions.

Do not mix, store or apply this product in galvanised steel or unlined steel containers or spray tanks, since a highly flammable gas mixture may be formed. Use stainless steel, aluminium, brass, copper, fibreglass, plastic or plastic lined containers or spray tanks. Spray tanks, pumps, lines and nozzles should be thoroughly cleaned with clean water following application. Ensure that the spray tank is free of any residue of other spray solutions prior to mixing. Use spray solutions promptly as a gradual loss of activity may occur over a period of days following spray preparation.

#### **Mixing Instructions :**

1. Fill the spray tank 1/3 to 1/2 full with clean water and start agitation.
2. If adding ammonium sulphate, use a 2% v/v and mix thoroughly.
3. If tank-mixing, add recommended herbicide/insecticide/additive to the spray tank and mix thoroughly.
4. Add ROUNDUP PowerMax and the remaining water. Mix thoroughly.
5. Add Pulse Penetrant or Wetter TX, if required, near the end of the filling process.
6. Always maintain adequate agitation during application and use the tank mix promptly.

Clean all equipment after use by washing thoroughly with water.

#### **TANK MIXTURES**

ROUNDUP PowerMax, may be tank-mixed with the following herbicides, insecticides and adjuvants. Read and follow all label directions, restraints, plantback and withholding periods, and safety directions for the tank-mix products.

#### **Tank Mixtures - Herbicides**

Nufarm Estercide 800, Nufarm LV Estercide 600 (2,4-D ester), Surpass 300 (2,4-D isopropylamine), Ally, Associate, Affinity, Hammer, Flowable Nu-trazine, Nu-trazine 900 DF (atrazine flowable or granular), Avadex Xtra, Flowable Simazine, Nufarm Simazine 900 DF (simazine flowable or granular), Nufarm Kamba 500 (dicamba), Express, Eclipse, Flame, Flandor, Garlon 600, Invader, Glean, Striker, Logran 750WG, Nugran, Lontrel, Nufarm LVE MCPA (MCPA LVE), MONZA®, Oust, Rifle, Solicam, Starane 200, Stomp, Surflan, TriflurX (trifluralin) and Yield. Other brands have not been tested.

The addition of Striker at 75mL/ha to recommended rates of ROUNDUP PowerMax prior to planting winter cereals will improve knockdown of certain weeds.

### **Tank Mixtures - Insecticides**

This product is compatible with the following insecticides. Imidan, Le-Mat, Lorsban 500, Perfekthion EC 400, Pirate 300, Karate, Sumithion ULV and emulsifiable concentrates of dimethoate and fenitrothion. Other insecticides have not been tested.

### **Adjuvants - Wetter TX**

Wetter TX is recommended for the control of silver grass and annual ryegrass in late winter and spring. Wetter TX is not a general purpose surfactant and should only be used where recommended.

Rate: 200mL/100L spray solution.

### **Adjuvants - Pulse Penetrant**

Pulse Penetrant is recommended for the control of Bracken and many woody weeds.

Rate: 200mL/100L spray solution.

### **Adjuvants - Ammonium sulphate**

Ammonium sulphate may be used as an adjuvant to alleviate the adverse effects of high levels of calcium, magnesium and bicarbonate ions in water. Rate: 2L /100L spray solution.

## **APPLICATION**

### **Boom Equipment**

For broadacre application, a spray volume of 80L/ha or less is recommended for optimum performance. Spray booms equipped with flat fan nozzles are recommended using an operating pressure of 200-280kPa.

### **Wiper Equipment**

Wiper equipment (eg. Ropewick, canvas, felt or carpet applicators) may be used to apply Roundup PowerMax. Avoid contact with desirable vegetation. Operate wiper equipment a minimum of 10cm above the crop or pasture. Weeds should be at least 15cm above the crop or pasture at time of application. Speed of travel should be no greater than 8km/h, Best results are achieved at lower speeds and where two applications are made in opposite directions (double pass). Where weeds are of variable height, or occur in dense infestations or clumps, some plants may not be contacted by the herbicide solution. In these cases repeat treatment may be necessary.

**RATE:** Mix 700mL Roundup PowerMax with 2.3 litres clean water. Adjust flow rate to suit equipment.

### **Aerial Equipment**

ROUNDUP PowerMax may be applied by aircraft for control of weeds in forests, cropland or pasture prior to establishment of crops, new pastures or new forest plantings and for pre-harvest application to sorghum and cotton crops up to a maximum rate of 3L/ha where specified by this label. DO NOT apply treatments by aircraft in situations where drift onto sensitive crops and pastures is likely to occur.

Apply treatments using boom or Micronair equipment using a spray volume not less than 20L/ha and using settings to produce a median droplet diameter of 250-350 microns. Swath width should be set to take into account aircraft type, wind conditions and target height. Swath width will need to be reduced to avoid striping under light wind conditions and/or application to tall, dense targets eg. pre-harvest application, treatments in heavy crop stubble. Thoroughly wash aircraft after each day of spraying to remove herbicide residues.

### **Application on hilly terrain**

Increase water volume to 30-80L/ha and increase median droplet diameter of output to at least 300 microns to optimise deposition of spray output onto weeds.

### **Air temperature and relative humidity**

DO NOT apply ROUNDUP PowerMax by aircraft at temperatures above 30°C. Increase spray output to at least 30L/ha when temperatures rise above 25°C. Avoid application when relative humidity falls below 35%.

## **AVOID DRIFT**

DO NOT apply treatments with spraying equipment or under weather conditions which are likely to cause spray drift onto nearby susceptible crops, pastures or other sensitive plants. DO NOT apply treatments under very light (<4km/h) or inversion conditions or where wind speeds exceed 12km/h.

## **APPLICATION CHECK LIST**

- Do not treat weeds under poor growing conditions due to moisture stress, waterlogging, severe frosting, insect damage etc. Reduced performance may also occur where weeds are covered with dust or silt.
- Do not add surfactants, adjuvants or other pesticides except as specifically directed on this label.

- Rain within 1 hour of application which causes run-off may require re-treatment. Rainfastness is reduced if weeds are not actively growing, under stress or conditions of low light intensity/darkness. The addition of Wetter TX may improve rainfastness on winter annual weeds.
- A withholding period for grazing is not required. However, it is recommended that grazing of treated plants be delayed to ensure herbicide uptake. Certain plants such as Soursob, Variegated thistle, Sorghum and Johnson grass may be naturally toxic to stock when eaten in large quantities under certain conditions. Where plants are known to be toxic, grazing should be delayed until complete desiccation of treated plants has occurred.
- Apply treatments to weeds which have at least one true leaf (broadleaf weeds) or two leaves (grasses) to provide an adequate surface area for herbicide uptake.
- If heavy grazing has occurred, allow regrowth to 6-8 cm before spraying and use the higher rates recommended.

#### **PRECAUTIONS**

DO NOT use human flaggers/markers unless they are protected by engineering controls such as enclosed cabs. Re-entry period: DO NOT enter treated areas until spray has dried. When prior entry is necessary, wear personal protective equipment as specified in the Safety Directions.

#### **PROTECTION OF CROP, NATIVE AND OTHER NON-TARGET PLANTS**

Avoid contact with foliage, green bark or stems, canes, laterals, suckers, fresh wounds, exposed non-woody roots, flowers or fruit of crops, desirable plants and trees, since severe injury or destruction may result.

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

#### **PROTECTION OF WILDLIFE, FISH CRUSTACEA AND ENVIRONMENT**

Do NOT contaminate dams, rivers or streams with the product or used container. Do NOT apply to weeds growing in or over water. Do NOT spray across open bodies of water.

#### **N (Nufarm logo)**

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