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CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Roundup UltraMAX®

HERBICIDE

ACTIVE CONSTITUENT: 570 g/L GLYPHOSATE present as the potassium salt

GROUP 9 HERBICIDE

Non-selective herbicide for the control of many annual and perennial weeds

DIRECTIONS FOR USE

RESTRAINTS

DO NOT apply to malting barley.

DO NOT disturb weeds by cultivation, sowing or grazing for six hours of daylight following treatment of annual weeds and seven days for perennial weeds to ensure herbicide absorption, unless specified otherwise in critical comments.

CONSERVATION TILLAGE

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
SOUTHERN AUSTRALIA FULL SOIL DISTURBANCE Prior to sowing a crop or pasture with full soil disturbance by cultivation or sowing with a tyned implement	Barley grass, brome grass, volunteer cereals, wild oats	320-625 mL/ha pre-tillering 625-795 mL/ha post-tillering	Rate selection - Use higher rates for advanced weed growth or when treating under cold/overcast conditions. Cultivation or planting may proceed from 1 hour of daylight after application to seedling annual weeds if a satisfactory seedbed can be created for crop germination and seedling establishment. Bentgrass - Use a rate of 1.6 L/ha. Apply in late Spring following initiation of seed-head emergence. Follow up with full disturbance with a tyned implement 10-21 days after spraying. Silvergrass - When treating dense infestations of Silvergrass, use higher rate, add Wetter TX™ and use water volumes of 70 L/ha or more to improve coverage. Perennial weeds - Roundup UltraMAX will provide seasonal control and reduction in plant numbers. Control of Skeleton weed requires addition of full soil disturbance at planting. In Tasmania, for perennial weeds use 950 mL-1.9 L/ha.
	Annual phalaris, annual ryegrass, silvergrass, winter grass	625-795 mL/ha pre-tillering 795-950 mL/ha post-tillering	
	Calomba daisy, capeweed, doublegee/spiny emex, fumitory, volunteer lupins, volunteer peas	320-625 mL/ha less than 8 cm dia/height 625-950 mL/ha greater than 8 cm dia/height	
	Amsinckia, dock (seedling), Paterson's curse, saffron thistle, Scotch thistle, spear thistle, variegated thistle, wild turnip	625-795 mL/ha less than 12 cm dia/height 795-950 mL/ha greater than 12 cm dia/height	
	Bent grass, perennial phalaris, skeleton weed, sorrel, sub.clover	950 mL-1.9 L/ha	

Roundup UltraMAX Herbicide

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
SOUTHERN AUSTRALIA MINIMAL SOIL DISTURBANCE To commence a fallow OR 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	625-950 mL/ha	Rate selection - 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 950 mL-1.9 L/ha with the higher rate for control of perennial weeds. Pasture or crop establishment - DO NOT sow into excessive trash. Excessive plant residues may be removed by grazing after treatment. Planting may proceed from 1 hour of daylight after application to seedling annual weeds if a satisfactory seedbed can be created for crop germination and seedling establishment. Aerial (or surface) seeding - Delay seeding until trash level is reduced to allow for satisfactory placement of broadcast seed on the soil surface. Bathurst burr - For mature weeds use the higher rate. Bentgrass - Use a rate of 1.6 L/ha. Apply in late Spring following initiation of seed-head emergence. Follow up with full disturbance with a tyned implement 10-21 days after spraying. Couch, kikuyu, paspalum - 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. Kikuyu, paspalum - Use the low rate for suppression, the high rate for control. Dock, flatweed - Use the maximum rate for full control. Hoary cress - Treat from late rosette to early flowering. Silvergrass - When treating dense infestations of Silvergrass, use higher rate, add Wetter TX™ and use water volumes of 70 L/ha or more to improve coverage. Soursob - Use at a rate of 950 mL/ha. Treat at tuber exhaustion.
	Annual ryegrass, brome grass, capeweed, Paterson's curse, saffron thistle, Scotch thistle, silvergrass, soursob, spear thistle, variegated thistle, wild mustard, wild radish, wild turnip, winter grass	950 mL-1.25 L/ha	
	Bentgrass, Bathurst burr, couch, dock, erodium, flatweed, hoary cress, kikuyu, plantain, paspalum, perennial phalaris, sorrel, sub. clover, Yorkshire fog	1.2-1.9 L/ha	
	Poa tussock	1.9-2.5 L/ha	
Pasture topping	Annual ryegrass	285-645 mL/ha	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.
	Barley grass, brome grass, capeweed, silvergrass	190-285 mL/ha	
	Calomba daisy	285 mL/ha	
Seed-head suppression	Bent grass	225-400 mL/ha	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.

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SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
<p>SOUTHERN AUSTRALIA NSW, ACT, Vic, Tas only For control/suppression prior to establishing crops or improved pasture species</p>	<p>Serrated tussock</p>	<p>2.5-3.8 L/ha</p>	<p>Apply to actively growing and stress free plants. Best results May to October. Application - Boom spray volume of 70 L/ha or more is recommended to improve plant coverage. Also see Aerial Equipment. Surfactants - Addition of 200 mL of Wetter TX™ to 100 L of spraying solution may improve control of Serrated tussock. Site preparation - Burning of serrated tussock 10-12 months before spraying or slashing/heavy grazing (cell grazing) 2 weeks before spraying is essential for good results (Note: Serrated tussock is almost indigestible and prolonged exposure can lead to starvation and death of stock). Rates - 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>475-795 mL/ha</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 Aerial Equipment. Surfactants - Addition of 200 mL of Wetter TX™ to 100 L of spraying solution may improve results. Rates - 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	RATE	CRITICAL COMMENTS
<p>NORTHERN AUSTRALIA In fallows or prior to planting a crop</p> <p>Cotton Shielded sprayers</p>	Paradoxa grass, volunteer cereals, wild oats	320–625 mL/ha	<p>Rate selection - 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 (<i>Urochloa</i>) grass may need follow up treatments for complete control.</p> <p>Tank mixtures - 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. A 980 g/kg crystalline ammonium sulphate at 850 g/100 L may enhance knockdown weed control where tank mixtures of atrazine are used.</p> <p>Shielded sprayers - Apply Roundup UltraMAX to weeds growing between crop rows using a shielded sprayer. DO NOT apply in cotton less than 20cm high. DO NOT allow spray or spray drift to contact any part of the cotton plant as severe injury may result.</p> <p>Pasture or crop establishment - DO NOT sow into excessive trash. Excessive plant residues may be removed by grazing after treatment. Cultivation or planting may proceed from 1 hour of sunlight after application to seedling annual weeds if a satisfactory seedbed can be created for crop germination and seedling establishment.</p>
	African turnip weed, black pigweed, Boggabri weed, caltrop (Yellow vine), deadnettle, mintweed, milk (sow) thistle, stinkgrass (lovegrass), sweet summer grass, variegated thistle, volunteer sorghum	425-625 mL/ha up to 5 true leaves or 3cm in dia/height	
	Annual ground cherry, barnyard grass, Bathurst burr, bladder ketmia, button grass, camel (Afgan) melon, caustic weed, Columbus grass, liverseed grass, Mexican poppy, native millet, New Zealand spinach, noogoora burr, pigweed (up to 25 cm dia), spear thistle, stinking goosefoot, thornapple (datura), turnip weed, wild/prickly lettuce, wireweed	625 mL-1.3 L/ha greater than 5 true leaves or 3 cm in dia/height	
	Prickly paddy melon	610 mL-1.25 L/ha plus 80 mL Garlon® 600	
	Climbing buckwheat (less than 12 leaves), couch, Johnson grass	1.2-1.9 L/ha	

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SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
	Nutgrass (<i>Cyperus rotundus</i>)	1.9 L/ha followed by 1.9 L/ha	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 re-treating.
Sugar cane Inter-row Spraying	Annual and perennial grasses and broadleaf weeds	1.1-4.7 L/ha	Apply to weeds growing between crop rows using a ground based hooded and shielded sprayer. Apply at early growth stage of crop, before formation of the cane. Apply no more than 3 applications, to a maximum of 11.4 L/ha per crop. DO NOT allow spray or spray drift to contact any part of the crop as severe injury may result.
Sugar cane Ratoon spray out Qld, NSW only	Sugar cane ratoon regrowth	3.8-5.7 L/ha	Apply under good growing conditions only to actively growing ratoons 60-120 cm tall. DO NOT apply if plants are under stress from low moisture or water logging. Use the lower rate for suppression or where cultivation is to follow. Use higher rate for control.

PRE AND POST HARVEST USES

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Sorghum control	Grain-sorghum (pre-harvest)	945 mL-1.9 L/ha	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. Under any set of environmental conditions, individual varieties can vary in response to preharvest treatments. In general, varieties with a more "determinant" growth habit are more susceptible than "indeterminant" varieties.
	Grain-sorghum (post-harvest)	625 mL-1.3 L/ha	Slashed/grazed stubble. Apply when fresh regrowth is at least 20 cm 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	795 mL-1.6 L/ha	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 as harvest aid and weed control: Wheat (<i>Triticum aestivum</i>)	Annual weeds	850 mL-3.4 L/ha	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 5 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.

Roundup UltraMAX Herbicide

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
<p>PRE-HARVEST APPLICATION as harvest aid and weed control: Barley (except malting barley) (<i>Hordeum vulgare</i> L.)</p>	<p>Annual weeds</p>	<p>1.65 L/ha</p>	<p>Apply to mature crop from late dough stage (28% moisture) onwards. DO NOT apply more than one (1) treatment per crop. DO NOT harvest within 7 days after application. DO NOT apply if heavy rains are imminent. DO NOT use on crops intended for seed or sprouting.</p>
<p>PRE-HARVEST APPLICATION to reduce viable seed set of weeds in: Field peas (<i>Pisum sativum</i>) Faba beans (<i>Vicia faba</i>)</p>	<p>Annual ryegrass (<i>Lolium rigidum</i>)</p>	<p>300-645 mL/ha</p>	<p>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.</p>
<p>PRE-HARVEST APPLICATION To desiccate a crop as a harvest aid and weed control Adzuki beans, chickpeas, cowpea, faba beans, field peas, lentils, mungbeans, soybean (Application to crops intended for seed production or for sprouting may reduce germination percentage to commercially unacceptable levels.)</p>	<p>Annual weeds</p>	<p>645 mL-1.7 L/ha</p>	<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: Chickpeas and lentils - Apply when physiologically mature and less than 15% green pods. Faba beans - Apply when pods turn black and average seed moisture content is below 30%. Field peas - Apply when seeds turn yellow and average seed moisture content is below 30%. Mungbeans / adzuki and cowpea - Apply to mature crops when pods are brown/black. Soybean - Apply only after seed pods have lost all green colour and 80-90% of leaves have dropped. DO NOT harvest within 7 days of application. Speed of crop desiccation is dependent on crop stage, growing conditions and weather conditions during and after application.</p>
<p>PRE-HARVEST APPLICATION As harvest aid and weed control: Canola (<i>Brassica napus</i>) (including TruFlex Roundup Ready®, Roundup Ready®, conventional, triazine tolerant, and CLEARFIELD varieties)</p>	<p>Annual weeds</p>	<p>1.2-3.4 L/ha</p>	<p>Apply to mature standing crop from early senescence (minimum of 20% of canola seeds as a random visual sample from various heights in the crop canopy from the main stem have changed to a dark brown/black colour) prior to windrowing or direct harvest. Application can also be made at the time of windrowing (windrow equipment fitted with spray booms). To avoid shatter losses from ground boom application, apply before complete senescence of the crop. Use the higher rate specified in the rate column</p>

Roundup UltraMAX Herbicide

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
			<p>when crops or weeds are dense and where faster desiccation is required.</p> <p>DO NOT apply after completion of the windrowing process.</p> <p>DO NOT use on crops intended for seed.</p> <p>DO NOT overspray windrows.</p> <p>DO NOT direct spray at windrows.</p> <p>DO NOT apply to standing crops and again at the time of windrowing.</p> <p>Speed of crop desiccation is dependent on crop stage, growing conditions and weather conditions during and after application.</p> <p>For application to standing crops a minimum water rate of 80 L/ha is recommended to ensure adequate coverage of target weeds below the crop canopy.</p> <p>Any subsequent weed management strategies should involve an integrated weed management (IWM) approach to minimise development of glyphosate resistance.</p>
<p>PRE-HARVEST/ CUTTING APPLICATION in annual pasture for hay/silage production. For application prior to cutting for hay or silage and for weed control and prevention of regrowth.</p>	<p>Annual weeds</p>	<p>1.2-3.4 L/ha</p>	<p>Apply to mature standing pasture within 3-10 days prior to cutting or mowing.</p> <p>Annual pasture includes oats, wheat, triticale, barley, annual ryegrass and other annual forage grasses cut for hay or silage use.</p> <p>Apply with ground boom or aerial equipment.</p> <p>Use the higher rate if the hay/silage is of high density, if cutting is planned within 3 days of application, or if the crop is rank or lodged and where faster desiccation is required. The lower rate is for low density hay and silage pasture.</p> <p>DO NOT cut within 2 days after application. A minimum of 3 days prior to cutting is recommended where conditions result in slow translocation in the target plant.</p> <p>Good spray coverage is also important for best results and it is recommended that a minimum application water volume of 70 L/ha is used.</p>

BRUSH AND WOODY WEEDS – MIXTURES WITH ASSOCIATE®

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Pastures, forests, commercial and industrial areas, rights of way, domestic and public service areas	Blackberry (<i>Rubus</i> spp.), volunteer pine wildlings (suppression only)	Handgun or Knapsack 250 mL Roundup UltraMAX plus 3 g Associate® per 100 L of water	For blackberries, apply from flowering until prior to leaf yellowing. Due to widespread picking of blackberries by the public, it is not recommended that the product be applied to bushes bearing mature fruit. Application to pine wildlings less than 50 cm in height should be controlled when actively growing. Use Pulse® Penetrant at the rate of 200-500 mL per 100 L water.
	Bracken (<i>Pteridium esculentum</i>)	Aerial or Boom For Blackberry and Volunteer Pine wildlings: 5 L plus 60 g Associate® per ha	For bracken, apply when fronds are fully unfurled but prior to first frosts. For boom application, refer to Boom application section. Use Pulse® Penetrant at the rate of 200-500 mL per 100 L of water.
	Gorse (<i>Ulex europaeus</i>)	For Bracken: 2.5 L plus 30 g Associate® per ha	For gorse, apply when actively growing at any time of year, except spring. Use Pulse® Penetrant at the rate of 200-500 mL per 100 L of water.
	Lantana (<i>Lantana camara</i>)		For lantana, apply when actively growing. DO NOT apply during periods of summer drought stress. Use Pulse® Penetrant at the rate of 200-500 mL per 100 L of water.
	St John's wort (<i>Hypericum perforatum</i>)		For St John's wort, apply when actively growing from spring to summer. Use Pulse® Penetrant at the rate of 200-500 mL per 100 L of water.
	Sweet briar (<i>Rosa rubiginosa</i>)		For sweet briar, apply when in full leaf, prior to leaf fall. Use Pulse® Penetrant at the rate of 200-500 mL per 100 L of water.

DIRECTIONS FOR USE

SITUATION	CRITICAL COMMENTS READ APPLICATION CHECKLIST BEFORE USING. See Annual, Perennial and Woody weeds sections below for most appropriate rate.
<p>GENERAL WEED CONTROL 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</p>	<p>For the control of many grasses and broadleaf weeds. RATE: 6.5 mL per litre of water 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.</p>
<p>Agricultural areas</p>	<p>Roundup UltraMAX 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.</p>
<p>Dry drains and channels only</p>	<p>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.</p>
<p>Forests</p>	<p>Roundup UltraMAX 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.</p>
<p>Non-agricultural areas around buildings, commercial and industrial areas, domestic and public service areas, right-of-ways</p>	<p>Roundup UltraMAX does not provide residual weed control. For residual control of annual weeds, Roundup UltraMAX may be tank mixed with certain residual herbicides. See Tank Mixtures/Compatibility.</p>
<p>Tree and vine crops vineyards, berries and other small fruits (excluding strawberry), citrus fruits, tropical and sub-tropical fruits, pome fruits, stone fruits, tree nuts, duboisia, hops, tea</p>	<p>Apply as a directed or shielded spray or using wiper equipment. DO NOT apply as 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 plant. Citrus fruit, nuts, olives, pome fruit & vineyards - DO NOT allow spray or spray drift to contact green bark or stems, canes, laterals, suckers, fresh wounds, foliage or fruit. Hops - Apply in winter, prior to crop emerging from dormancy. Tea - Apply a maximum of 2.6 L/ha by shielded boom or directed off-centre nozzle or 320 mL/ 100L by directed hand-gun or knapsack to avoid application to the crop. All other crops - 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.</p>

Roundup UltraMAX Herbicide

SITUATION	CRITICAL COMMENTS
	<p>READ APPLICATION CHECKLIST BEFORE USING.</p> <p>See Annual, Perennial and Woody weeds sections below for most appropriate rate.</p>
Pasture	<p>DIRECTED (SPOT) APPLICATION Roundup UltraMAX is non-selective and may damage or kill any plant in the sprayed area. Re-treatment and/or pasture improvement may be necessary to restrict seedling re-establishment.</p> <p>SELECTIVE APPLICATION See Wiper Equipment.</p> <p>BOOM APPLICATION Roundup UltraMAX may be used to suppress or kill existing pasture species prior to re-seeding or establishment of other crops. When spot application (spray or wiper) is undertaken, grazing stock need not be removed.</p> <p>CAUTION Certain plants may be naturally toxic to stock. Where known toxic plants are present do not allow stock to graze until complete browning of treated plants has occurred.</p>

WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
<p>ANNUAL WEEDS</p> <p>Amaranth, Bathurst burr, barley grass, brome grass, barnyard grass, caltrop, canary grass, capeweed, chickweed, cobbler's peg, deadnettle, doublegee, fumitory, ground cherry, hedge mustard, lesser swinecress, liverseed grass, mintweed, noogoora burr, paradoxa grass, Paterson's curse, pigweed, potato weed, ryegrass, saffron thistle, silvergrass, milk (sow) thistle, spear thistle, spiny burgrass, spurge, sub clover, thornapple, wild mustard, wild oats, wild turnip, winter grass, variegated thistle, volunteer cereal</p>	<p>Boom: 1.27-1.9 L/ha</p> <p>Handgun: 310-455 mL per 100 L</p> <p>Knapsack: 45-65 mL per 15 L</p>	<p>Apply to weeds whenever they are not subject to stress due to drought or frost. Use higher rate on weeds over 15 cm in height or diameter or where dense weed cover limits spray coverage. Use higher spot spraying rate when applying less than 5 L spray per 100 m². Roundup UltraMAX 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 UltraMAX may be tank-mixed with certain residual herbicides. See Tank Mixtures in the General Instructions for directions. DO NOT use an atrazine tank-mix for control of barnyard grass, liverseed grass or milk (sow) thistle.</p>

WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
<p>PERENNIAL WEEDS 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>Boom: 1.8-3.7 L/ha</p> <p>Handgun: 445-625 mL per 100 L</p> <p>Knapsack: 65-95 mL per 15 L</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.</p> <p>For nutgrass in cultivated situations apply sequential low rate treatments when nutgrass has a minimum of 6-8 leaves. Use the higher rate in uncultivated situations.</p> <p>For Rhodes grass, rope twitch, prairie grass, Queensland blue grass, Johnson grass, kangaroo grass, kikuyu, red-leg grass, paspalum and sorrel, use the higher rates only.</p>
<p>Blady grass, bracken, couch, Guinea grass, *paragrass, silverleaf nightshade, *water couch</p> <p>*Use on dry drains and channels ONLY (see Use Situations critical comments above)</p>	<p>Boom: 5.6 L/ha</p> <p>Handgun: 825 mL or 1.27 L per 100 L</p> <p>Knapsack: 125 or 190 mL per 15 L</p>	<p>For bracken add Pulse® at 200-500 mL/100 L 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. In cultivated situations use sequential treatments of 1.8-4.0 L/ha for control. Only use higher rate for handgun and knapsack for silverleaf nightshade.</p>
<p>WOODY WEEDS Bamboo, bitou bush, boneseed, boxthorn, crofton weed, gorse, groundsel bush, lantana, mistflower</p>	<p>Handgun: 310-625 mL per 100 L</p> <p>Knapsack: 45-95 mL per 15 L</p>	<p>Apply to actively growing plants. DO NOT apply to drought stressed plants. Further treatment may be necessary to restrict seedling re-establishment.</p> <p>Bamboo - Apply when foliage/regrowth is 1-2 m tall, use higher rate only.</p> <p>Bitou bush/boneseed - Apply higher rate on bushes greater than 1.5 m. Best results are achieved when treated at peak flower during winter.</p> <p>Boxthorn - Minimum rate is 450 mL for handgun and 65 mL for knapsack.</p> <p>Groundsel bush - Apply higher rate on bushes greater than 2 m. DO NOT apply in winter. Minimum rate is 450 mL for handgun and 65 mL for knapsack.</p> <p>Gorse - Always add Pulse® at 200-500 mL/100 L of spray mix, use higher rate only.</p> <p>Lantana - Use higher rate only. Addition of Pulse® (200-500 mL/100 L) may improve control.</p> <p>Boxthorn, gorse, lantana - Removal of bushes (after complete brownout), pasture improvement or further treatment are recommended to control seedlings and/or regrowth.</p>

WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Blackberry, Chinese scrub, <i>Eucalyptus</i> spp. (seedlings less than 2 m), hawthorn, pampas grass, sifton bush, sweet briar, willow (less than 2 m)	Handgun: 625-825 mL per 100 L Knapsack: 95-135 mL per 15 L	Apply to actively growing plants. Removal of bushes (after complete brownout), pasture improvement or further treatment are recommended to control seedlings and/or regrowth. Blackberry - Apply from flowering to leaf fall, use higher rate on old dense infestations greater than 2 m high. In Tasmania, DO NOT treat bushes bearing mature fruit. Chinese scrub - Use higher rates on bushes greater than 1 m. Eucalyptus spp. - Add Pulse® at 200-500 mL/100 L of spray mix. Hawthorn - Apply from flowering to leaf fall, use higher rates on bushes greater than 2 m. Pampas grass - Allow regrowth to reach 1 m, best results-apply after flowering. Sifton bush - Use higher rates on bushes greater than 1m.
Sweet briar	Handgun: 950 mL-1.3 L per 100 L Knapsack: 140-190 mL per 15 L	Apply from late flowering to leaf fall. Use higher rates on bushes greater than 1.5 m.

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

WITHHOLDING PERIODS

HARVEST:

WHEAT: DO NOT HARVEST WITHIN 5 DAYS AFTER APPLICATION

BARLEY, SORGHUM AND LEGUMES: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION

ALL OTHER CROPS/USES: NOT REQUIRED WHEN USED AS DIRECTED

GRAZING:

HAY/SILAGE: DO NOT MOW OR CUT FOR 2 DAYS AFTER APPLICATION

WHEAT: DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 5 DAYS AFTER APPLICATION

BARLEY: DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 7 DAYS AFTER APPLICATION

FOR OTHER CROPS: NOT REQUIRED WHEN USED AS DIRECTED

TANK MIXTURES: REFER TO TANK MIX PARTNER LABEL AND FOLLOW ACCORDINGLY

EXPORT OF TREATED PRODUCE

Growers should note that MRLs or import tolerances do not exist in all markets for produce treated with Roundup UltraMAX Herbicide. If you are growing produce for export, please check with Bayer CropScience Pty Ltd for the latest information on MRLs and import tolerance before using Roundup UltraMAX Herbicide.

GENERAL INSTRUCTIONS

PRODUCT INFORMATION

Roundup UltraMAX 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 UltraMAX 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 must be taken to remove residues of this product from the plastic prior to transplanting. Residues can be removed by 20 mm of natural rainfall or by applying water via a sprinkler irrigation system.

Roundup UltraMAX 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 UltraMAX 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. Roundup UltraMAX Herbicide will not control Roundup Ready[®] canola or Roundup Ready Flex[®] cotton volunteers at any leaf stage.

CROP ESTABLISHMENT

Roundup UltraMAX 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.

GRAZING

A grazing withholding period is required after application in wheat and barley but for other crops 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. Pasture or crops should not be cut for hay or silage for 2 days after application of Roundup UltraMAX.

MIXING

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

DO NOT mix, store or apply this product in galvanized 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: General uses

1. Add water to the spray tank to approximately 50% full. Commence agitation and continue throughout the mixing process.
2. Add any water conditioners (avoid dirty water). For hard water add crystalline ammonium sulphate (980 g/kg) at 850 g/100 L spray solution into the tank. Continue agitation.
3. Add tank mix partners. Make sure each product is completely dispersed before adding the next product.
4. Top up tank with more water to approximately 75% full, while continuing agitation.
5. Add Roundup UltraMAX Herbicide, while continuing agitation.
6. Complete filling the spray tank.

Always maintain adequate agitation during application and use the tank mix promptly.

Clean all equipment after use by washing thoroughly with water or with a high quality tank and boom cleaner such as ALL CLEAR[®] DS.

TANK MIXTURES

Roundup UltraMAX 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. In multiple product tank mixes a minimum water volume of 50 L/ha is recommended and local advice should be sought. Correct mixing order is important as is good in-tank agitation when application/spraying is occurring.

TANK MIXTURES - HERBICIDES

900 g/kg atrazine, 625 g/L 2,4-D (present as dimethylamine and diethanolamine salts), Nufarm Amicide[®] Advance 700 Selective Herbicide, Statesman[®] 720 Herbicide, Sharpen[®] WG Herbicide, Nufarm Estercide[®] 800, Nufarm Estercide[®] Xtra 680 (2,4-D ester), Associate[®], Boxer Gold[®] Herbicide, Hammer[®] 400 EC Herbicide, Avadex[®] Xtra, simazine flowable or granular, Nufarm Kamba[®] 500 (dicamba), Eclipse[®], Flame[®], Garlon[®] 600, GoalTender[®], Hotshot[®], Invader[®], 240 g/kg oxyfluorfen, Logran[®] 750WG, Logran[®] B Power (ensure fully dispersed prior to addition of Roundup UltraMAX), 750 g/kg chlorsulfuron, 750 g/kg clopyralid,

Nufarm LVE Agritone® (MCPA LVE), MONZA®, Mako®, Rifle® 440, Sakura® 850 WG, Comet® 400, Starane® Advanced, Stomp®, Stomp® Xtra, Surflan* 500 SC, TriflurX®, Triflur® 600 and Yield®.

Other brands have not been tested.

The addition of 240 g/L oxyfluorfen at 75 mL/ha to recommended rates of Roundup UltraMAX prior to planting Winter cereals will improve knockdown of certain weeds.

TANK MIXTURES - INSECTICIDES

This product is compatible with the following insecticides: Astound® Duo, Imidan*, Chlopyrifos 500, Lorsban® 500, Nufarm Dimethoate, Karate Zeon®, Sumitomo Sumithion* ULV Premium Grade Insecticide, Talstar® and emulsifiable concentrates of dimethoate and fenitrothion. Other insecticides have not been tested.

TANK MIXTURES - ADJUVANTS

Nufarm LI700® Surfactant

At rates of 300mL-500mL per 100 L, LI700 may modify the droplet spectrum produced by CP and flat fan nozzles. This may reduce the proportion of FINE droplets produced by these nozzles. LI700 can be used to reduce pH in hard water situations, assisting uptake.

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: 200 mL/100 L spray solution.

Pulse® Penetrant or Brushwet Organosilicone Surfactant

Pulse Penetrant or Brushwet Organosilicone Surfactant is recommended for the control of Bracken and many woody weeds.

Rate: 200-500 mL/100 L spray solution.

Crystalline ammonium sulphate (980 g/kg)

A high-grade spray quality crystalline ammonium sulphate (980 g/kg) may be used as an adjuvant to alleviate the adverse effects of high levels of calcium, magnesium and bicarbonate ions in water.

Rate: 850 g/100 L spray solution.

DO NOT use adjuvants, surfactants or other pesticides other than those recommended on this label.

DO NOT use crop oil except when tank mixing with a herbicide for which an oil adjuvant is recommended to be used. The addition of a crop oil can reduce control of some grass weeds, particularly in Summer.

APPLICATION

Boom equipment

For broadacre boom application (excluding barley), a spray volume of 80 L/ha or less is recommended for broadacre uses and 200 L/ha or less for treeline and veline spraying in orchards and vineyards. For barley, apply in a spray volume of 80 L/ha. Glyphosate works better when it is present at a higher concentration in the spray solution provided sufficient coverage of the target is achieved. **DO NOT** apply with spray droplets smaller than COARSE to VERY COARSE. In multiple product tank mixes a minimum water volume of 50 L/ha is recommended and local advice should be sought. Correct mixing order is important as is good in-tank agitation when application is occurring.

For shielded applications a spray volume of 80 L/sprayed hectare is recommended using nozzle types and pressure settings to deliver a COARSE spray quality at the target. Crop damage may result if spray drift occurs through incorrect nozzle and/or pressure selection, inadequate shielding and/or wind strength, high evaporation rates or excessive ground speed.

High volume application (e.g. knapsack, handgun equipment)

The dilution rate varies depending on the use situation and weeds controlled - see **Weeds Controlled** tables for specific rates and use recommendation. Adjust equipment to achieve an even spray pattern with a COARSE spray quality at the target. Apply to ensure complete and uniform wetting of all foliage.

Wiper equipment

Wiper equipment (e.g. Ropewick, canvas, felt or carpet applicators) may be used to apply Roundup UltraMAX. Avoid contact with desirable vegetation. Operate wiper equipment a minimum of 10 cm above the crop or pasture. Weeds should be at least 15 cm above the crop or pasture at time of application. Speed of travel should be no greater than 8 km/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 665 mL Roundup UltraMAX with 2.3 L clean water. Adjust flow rate to suit equipment.

Controlled Droplet Application equipment (CDA)

Roundup UltraMAX can be applied through hand held and machine mounted CDA sprayers. See **Weeds Controlled** tables for specific rates and use recommendations. Due to the range of CDA equipment available, dilution rates, flow rates and travel speeds will need to be determined for individual sprayers to ensure labelled rates are applied. Spray units need to be cleaned thoroughly preferably after each application to ensure optimum performance.

DO NOT add oils to Roundup UltraMAX/water mixture, otherwise difficulty in application and reduced weed control may occur.

Because CDA units may deliver relatively low spray volumes per hectare, use on large weeds may result in insufficient coverage resulting in inadequate weed control.

CAUTION: CDA equipment produces a fine spray pattern which is not easily visible. Ensure spray pattern or drift does not contact foliage or any other green tissue of desirable plants, since severe injury or destruction may result.

Aerial equipment

Roundup UltraMAX 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 applications, up to a maximum rate of 2.6 L/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 20 L/ha. DO NOT apply with spray droplets smaller than COARSE to VERY COARSE. In multiple product tank mixes a minimum water volume of 50 L/ha is recommended and local advice should be sought. Correct mixing order is important. 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 e.g. preharvest application, treatments in heavy crop stubble. Thoroughly wash aircraft after each day of spraying to remove herbicide residues.

When applying this product by helicopter in combination with Associate for the control of blackberry and pine wildling suppression in forestry and other specific situations, the higher rate of Roundup UltraMAX may be applied. Refer to the Associate label for specific recommendations and application recommendations.

Application on hilly terrain

For aerial application on hilly terrain, increase water volume to 30-80 L/ha and use a COARSE spray quality to optimise spray coverage.

Air temperature and relative humidity

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

Wind speed and inversions

- **DO NOT** apply when wind speed is less than 3 or more than 20 kilometres per hour (ground application) as measured at the application site.
- **DO NOT** apply when wind speed is less than 3 or more than 15 kilometres per hour (aerial application) as measured at the application site.
- You must check, determine and record the weather conditions immediately prior to, and immediately after the spray application is made.
- Record
 - Temperatures
 - Relative humidity
 - Delta T
 - Wind speed
 - Is there a temperature inversion?

Night spraying - Extra care is required to ensure that inversion conditions are not present. Use smoke generator to determine wind direction and presence of inversion conditions.

Application should be avoided in wind speeds below 3km per hour (1.5 knots) due to variable wind direction and high inversion potential.

DO NOT apply if wind is blowing towards a sensitive crop or situation and off-target damage cannot be avoided.

Environmental factors

- 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.
- Rain within 1 hour of application which causes runoff 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.
- 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.

RESISTANT WEEDS WARNING

GROUP	9	HERBICIDE
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Roundup UltraMAX Herbicide is a member of the Glycines group of herbicides. Roundup UltraMAX has the inhibition of EPSP synthase mode of action. For weed resistance management Roundup UltraMAX is a Group 9 herbicide. Some naturally occurring weed biotypes resistant to Roundup UltraMAX and other Group 9 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 UltraMAX or other Group 9 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Bayer CropScience Pty Ltd accepts no liability for any losses that may result from the failure of Roundup UltraMAX to control resistant weeds. To minimise the risk of weeds developing resistance to Roundup UltraMAX Herbicide, use in conjunction with herbicides from alternative mode of actions groups and/or non-chemical weed control measures.

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, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or watercourses with the chemical or used containers. DO NOT apply to weeds growing in or over water. DO NOT spray across open bodies of water.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple 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 deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. Do not burn empty containers or product. Do not re-use empty container for any other purpose.

For REFILLABLE containers:

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Will irritate the eyes. May irritate the nose and throat. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) elbow-length PVC gloves and face shield or goggles. If product in eyes, wash it out immediately with water. Wash hands after use. 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. Phone Australia 13 11 26.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, which can be obtained from www.crop.bayer.com.au.

CAUTION: PLEASE READ THIS NOTICE BEFORE OPENING THE CONTAINER

The results obtained from using this product may be affected by factors beyond Monsanto's control, including mixing, use, climatic conditions, time of application, crop or crop stage and the possible development of resistance to the active ingredient.

LIMITATION OF LIABILITY

With the express exception of liabilities created by the Competition and Consumer Act 2010 (Cth) (including the Australian Consumer Law) or relevant State legislation which cannot be excluded, restricted or modified, none of Monsanto Australia Pty Ltd or any of its affiliates ("Monsanto"), or any manufacturer of any component of the product or Bayer CropScience Pty Ltd or any of its affiliates ("Bayer") shall be liable for any loss or damage (including consequential loss or damage), injury or death connected with, or arising out of, the product, regardless of the way in which it arises (including by way of negligence).

REMEDY FOR FAILURE TO COMPLY WITH CONSUMER GUARANTEES

If there has been a failure to comply with a consumer guarantee (other than a guarantee under sections 51, 52 or 53 of Australian Consumer Law or corresponding provisions in the relevant State legislation) in relation to a good which is not a good of a kind ordinarily acquired for personal, domestic or household use or consumption, the liability of Monsanto and Bayer is limited to a replacement of the good or the supply of an equivalent good.

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<p>FOR 24 HOUR SPECIALIST ADVICE IN EMERGENCY ONLY PHONE 1800 033 111</p>

GHS STATEMENTS

<p>Classification not required according to GHS criteria.</p>
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