



CAUTION

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

Roundup® Attack™ Herbicide with IQ inside™

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

GROUP

M

HERBICIDE

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

DO NOT remove plastic inner container from carton until empty (15L only)

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT

® Roundup is a registered trademark of Monsanto Australia Limited.

™ Attack and with IQ inside are trademarks of Nufarm Australia Limited

nufarm.com.au

Nufarm Australia Limited
ACN 004 377 780
103-105 Pipe Road
Laverton North Victoria 3026
Tel: (03) 9282 1000
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Contents:5 Litres
Contents:10 Litres
Contents:15 Litres
Contents:20 Litres
Contents:110 Litres - Bulk

APVMA Approval No.: 66117/56014

STORAGE AND DISPOSAL

QuikPour™ (15L only)

Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight. DO NOT separate inner bladder from outer carton. Single rinse or shake remainder into spray tank/water/dip/drench etc. Puncture outer carton and bladder. DO NOT dispose of undiluted chemicals on site. If recycling, return clean containers to recycler or designated collection point. If not recycling deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500mm 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.

(5L, 10L, & 20L)

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. 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 in compliance with relevant Local, State or Territory government regulations. Empty containers and product should NOT be burnt.

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 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. When using controlled droplet applicator, wear protective waterproof clothing and impervious footwear. 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.

MATERIAL SAFETY DATA SHEET

For further information refer to the Material Safety Data Sheet (MSDS), which can be obtained from your supplier or from the Nufarm website – www.nufarm.com.au

In case of emergency: Phone 1800 033 498 Ask for shift supervisor. Toll free 24 hours.

CONDITIONS OF SALE

"Any provisions or rights under the Competition and Consumer Act 2010 or relevant State legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates ("Nufarm") shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute."

BN / DOM / Barcode / drumMUSTER logo (5L, 10L, 20L)/ Envirodrum® (110L)/ QuikPour (15L)



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

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DIRECTIONS FOR USE

RESTRAINTS:

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	320-625mL/ha pre-tillering 625-795mL/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 1.6L/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 70L/ha or more to improve coverage. Perennial Weeds. Roundup Attack 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 950mL-1.9L/ha.
	Annual phalaris, Annual ryegrass, Silvergrass, Winter grass	625-795mL/ha pre-tillering 795-950mL/ha post-tillering	
	Calomba daisy, Capeweed, Doublegee/Spiny Emex, Fumitory, Volunteer lupins, Volunteer peas	320-625mL/ha less than 8cm dia/height 625-950mL/ha greater than 8cm dia/height	
	Amsinckia, Dock (seedling), Paterson's curse, Saffron thistle, Scotch thistle, Spear thistle, Variegated thistle, Wild turnip	625-795mL/ha less than 12cm dia/height 795-950mL/ha greater than 12cm dia/height	
	Bent grass, Perennial phalaris, Skeleton weed, Sorrel, Sub.clover	950mL-1.9L/ha	

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 oil disturbance or prior to surface seeding of pastures	Barley grass, Canary grass, Wild oats, Volunteer cereals	625-950mL/ha	<p>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 950mL-1.9L/ha with the higher rate for control of perennial weeds.</p> <p>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.</p> <p>Aerial (or Surface) Seeding Delay seeding until trash level is reduced to allow for satisfactory placement of broadcast seed on the soil surface.</p> <p>Bathurst burr For mature weeds use the higher rate.</p> <p>Bentgrass Use a rate of 1.6L/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.</p> <p>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.</p> <p>Kikuyu, Paspalum Use the low rate for suppression, the high rate for control.</p> <p>Dock, Flatweed Use the maximum rate for full control.</p> <p>Hoary cress. Treat from late rosette to early flowering.</p> <p>Silvergrass When treating dense infestations of Silvergrass, use higher rate, add Wetter TX™ and use water volumes of 70L/ha or more to improve coverage.</p> <p>Soursob Use at a rate of 950mL/ha. Treat at tuber exhaustion.</p>
	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	950mL-1.25L/ha	
	Bentgrass, Bathurst Burr, Couch, Dock, Erodium, Flatweed, Hoary Cress, Kikuyu, Plantain, Paspalum, Perennial Phalaris, Sorrel, Sub. Clover, Yorkshire fog	1.2-1.9L/ha	
	Poa tussock	1.9-2.5L/ha	
Pasture Topping	Annual ryegrass	285-645mL/ha	<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.</p> <p>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	190-285mL/ha	
	Calomba daisy	285mL/ha	
Seed-head Suppression	Bent grass	225-400mL/ha	<p>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.</p>
SOUTHERN AUSTRALIA NSW, ACT, Vic, Tas only For control/suppression prior to establishing crops or improved pasture species	Serrated tussock	2.5-3.8L/ha	<p>Apply to actively growing and stress free plants. Best results May to October.</p> <p>Application: Boom spray volume of 70L/ha or more is recommended to improve plant coverage. Also see Aerial Equipment.</p> <p>Surfactants: Addition of 200mL of Wetter TX™ to 100L of spraying solution may improve control of Serrated tussock.</p> <p>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).</p> <p>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>
For prevention of seed head emergence and seed formation	Serrated tussock	475-795mL/ha	<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.</p> <p>Surfactants: Addition of 200mL of Wetter TX™ to 100L of spraying solution may improve results.</p> <p>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	
NORTHERN AUSTRALIA In fallows or prior to planting a crop Cotton : Shielded Sprayers	Paradoxa grass, Volunteer cereals, Wild oats	320-625mL/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 (Urochloa) 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. Nufarm Liase may enhance knockdown weed control where tank mixtures of atrazine are used.</p> <p>Shielded Sprayers Apply Roundup Attack 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	425-625mL/ha up to 5 true leaves or 3cm in dia/height 625mL-1.3L/ha greater than 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 25cm dia.), Spear thistle, Stinking goosefoot, Thornapple (Datura), Turnip weed, Wild/Prickly lettuce, Wireweed	625mL-1.3L/ha		
	Prickly Paddy melon	610mL-1.25L/ha plus 80mL Invader® 600 /Garlon® 600		DO NOT add crop oil.
	Climbing buckwheat (less than 12 leaves) Couch, Johnson grass	1.2-1.9L/ha		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>)	1.9L/ha followed by 1.9L/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 retreating.
	Sugar cane: Inter-row Spraying	Annual and Perennial Grasses and Broadleaf weeds		1.1-4.7L/ha
SUGAR CANE Ratoon spray out Qld, NSW only	Sugar cane ratoon regrowth	3.8-5.7L/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.	

CONSERVATION TILLAGE - TANK MIXES with Amicide® Advance 700

SITUATION & CROP	WEEDS	RATE	CRITICAL COMMENTS
Preparatory spray for Fallows and Seedbeds or prior to sowing Crops * Follow plantback advice on the Amicide Advance 700 label	Flaxleaf fleabane (<i>Conyza bonariensis</i>)	A minimum of 1.15L/ha Roundup Attack plus 650mL-1.1L/ha Amicide Advance 700	Apply to cotyledon to 12 leaf rosette prior to stem elongation. Refer to Southern and Northern Australia fallow section of this label above for maximum rates in each situation. For Amicide Advance 700 use the low rate in Autumn/Winter and use the highest rate for Spring/Summer applications. For adequate coverage use a minimum application water volume of 70L/ha. A sequential application of Nuquat (refer below) is also recommended for situations where incomplete control is achieved with the first application, or where there are spray misses/shadowing, failures due to resistance, or under periods of temperature and/or moisture stress. In these situations, the sequential application is to be applied 7-14 days after the first application.
		As above followed by 1.6-2.0 L/ha Nuquat®	Apply at stem elongation to flowering plants. Apply the sequential application 7-14 days after the first application. For Nuquat use the low rate in Autumn/Winter and use the highest rate for Spring/Summer applications. For adequate coverage use a minimum application water volume of 70L/ha. The sequential application of Nuquat is recommended for situations where incomplete control is achieved with the first application, or where there are spray misses/shadowing, failures due to resistance or under periods of temperature and/or moisture stress. In these situations, the sequential application is to be applied 7-14 days after the first application.

SITUATION & CROP	WEEDS	RATE	CRITICAL COMMENTS
Preparatory spray for Fallows and Seedbeds or prior to sowing Crops * Follow plantback advice on the Amicide Advance 700 label	Volunteer canola (<i>Brassica napus</i>) including Roundup Ready® varieties	A minimum of 1.15L/ha Roundup Attack plus 880mL/ha or 1.2L/ha Amicide Advance 700	Refer to Southern and Northern Australia fallow section of the label above for maximum rates in each situation. Use lower rate of Amicide Advance 700 up to the 4 leaf weed stage. Use higher rate of Amicide Advance 700 up to the 6 leaf weed stage. For adequate coverage use a minimum application water volume of 70L/ha. It is essential to manage volunteer herbicide tolerant canola varieties in both crop and non-crop situations. These plants are best managed using an integrated weed management program that may include the use of alternative mode of action herbicides registered for use in the crop and/or cultivation.
	Fumitory (white), Ball mustard, Indian hedge mustard, Common sowthistle, Turnip weed, Wild turnip, Wild radish.	Refer to Northern and Southern Australia sections for rates of Roundup Attack plus 280-815mL/ha Amicide Advance 700	RATE SELECTION: A robust rate of Roundup Attack should be used. A minimum of 1.15L/ha is recommended. Use the lower rate of Amicide Advance 700 for seedling broadleaf weeds and increase to the higher rate for broadleaf weeds more than 10cm diameter/high. Always add the mixture product at recommended label rates. If one of the listed weeds is the dominant weed and there is no specific rate in the Southern and Northern Australia sections, consult the label's annual-weed rate-range. Select from within this range to suit the weed-stage, weed-density, conditions (etc) of your situation. For adequate coverage use a minimum application water volume of 70L/ha. At the time of application, all weeds must be actively growing and not under stress from low moisture, frost, cold, disease or water-logging. If grazing has occurred allow regrowth to 6-8cm before spraying and use higher rate. Always add either a non-ionic surfactant (eg. Activator®) or LI 700® in accordance with label directions on the mixture product. Use LI 700 with the mixture product if insecticides will be included in the tank mixture or if faster brown out of weeds is required.
	Seedlings of: Australian bindweed, Bellvine, Caltrop, New Zealand spinach, Raspweed		
	Ageratum (Blue top), Dock, Volunteer lupins, Volunteer peas, Volunteer Sunflowers, Charlock, Fumitory (Red), Medic, Paterson's curse, Prickly lettuce (Wild lettuce), Saffron thistle, Spear thistle, Variegated thistle	Refer to Northern and Southern Australia sections for rates of Roundup Attack plus 390-515mL/ha Amicide Advance 700	
	Bathurst burr, Blackberry nightshade, Californian burr, Horehound seedlings, Lincoln weed seedlings, Marshmallow seedlings, Sorrel seedlings, Thornapple, Volunteer vetch, Volunteer safflower, Common ice-plant, Storksbill/ Erodium seedlings, Ivyleaf speedwell, Melilotus, Shepherd's purse, Skeleton weed (Suppression only), Ward's weed, Wireweed seedlings (Hogweed), White clover, Sub-Clover	Refer to Northern and Southern Australia sections for rates of Roundup Attack plus 515 - 745mL/ha Amicide Advance 700	
	Amaranth, Apple of Peru, Mexican poppy, Annual ground cherry, Bladder ketmia, Fat hen, Melons, Native Rosella, Noogoora burr, Potato weed, Cow vine, Yellow vine,	Refer to Northern and Southern Australia sections for rates of Roundup Attack plus 745mL-1.15L/ha Amicide Advance 700	

CONSERVATION TILLAGE - TANK MIXES with SHARPEN® WG Herbicide

SITUATION	WEED	WEED STAGE	RATE	CRITICAL COMMENTS
Prior to sowing the following Winter broadacre crops Cereals - Barley - Oats - Wheat Pulses - Chickpeas - Faba beans - Field peas - Lentils - Lupins Legumes - Sub clover	<i>Amsinckia Amsinckia spp.</i> , Annual ryegrass <i>Lolium rigidum</i> , Barley grass <i>Hordeum spp.</i> , Brome grass <i>Bromus spp.</i> , Capeweed <i>Arctotheca calendula</i> , Indian hedge mustard <i>Sisymbrium orientale</i> , Lupins (volunteer) <i>Lupinus angustifolius</i> , Marshmallow / Small flowered mallow (max 6 leaf) <i>Malva parviflora</i> , Medics <i>Medicago spp.</i> , Muskweed <i>Myagrum perfoliatum</i> , Paterson's curse <i>Echium</i>	Apply as a tank mix with SHARPEN WG Herbicide to weeds at growth stage 2 leaf to 10 leaf Note: Small flowered mallow, maximum 6 leaf; Volunteer canola, maximum 4 leaf	Refer to Northern and Southern Australia sections for rates of Roundup Attack plus 9 – 26g/ha SHARPEN WG plus Bonza 1%	DO NOT apply post-sowing pre-emergent A robust rate of Roundup Attack should be used. A minimum of 1.15L/ha is recommended. Use of SHARPEN WG Herbicide with Roundup® Attack™ Herbicide with IQ inside™ will increase the speed at which specified broadleaf and grass weeds develop visible symptoms (compared to results achieved with Roundup Attack applied alone). The use of SHARPEN WG Herbicide with Roundup Attack may improve final control of broadleaved weeds including certain less sensitive weeds such as bladder ketmia, cowvine and marshmallow. Refer also to the SHARPEN WG label for information on handling and use. Use the lower rates of Sharpen on younger plants or plants growing under good conditions and the higher rates on older plants or plants growing under less optimum conditions.

SITUATION	WEED	WEED STAGE	RATE	CRITICAL COMMENTS
(cont.) Prior to starting a fallow, fallow maintenance and prior to establishment of Forestry Plantations	<i>plantagineum</i> , Sowthistle <i>Sonchus oleraceus</i> , Spiny emex / Doublegee / Three-cornered Jack <i>Emex australis</i> , Storksbill - long <i>Erodium botrys</i> , Sub. clover <i>Trifolium subterraneum</i> , Turnip weed <i>Rapistrum rugosum</i> , Volunteer canola (max 4 leaf) including Roundup Ready® varieties <i>Brassica napus</i> , Wild oats <i>Avena spp.</i> , Wild radish <i>Raphanus raphanistrum</i>			Apply only as a tank mix with recommended rates of SHARPEN WG. Refer to the appropriate label for weed sizes and follow all label directions. Bonza at 1% v/v must be added when applying SHARPEN WG Herbicide with Roundup Attack. If one of the listed weeds is the dominant weed and there is no specific rate in the Southern and Northern Australia sections, consult the label's annual-weed rate-range. Select from within this range to suit the weed-stage, weed-density, conditions (etc) of your situation. To ensure uptake of SHARPEN WG Herbicide, DO NOT sow crops for at least 1 hour after application. Crop tolerance to SHARPEN WG Herbicide by the IBS sowing method is very good and is maximised if the seeder is fitted with knifepoints and press wheels to remove treated soil from above the seed. Sow crops with a seeder that will move treated soil away from crop row. This is particularly important with lentils and faba beans. Use of seeders, or planting under conditions that do not move treated soil from the crop row may increase the level of early crop damage. Refer to the plant-back interval table on SHARPEN WG in case a longer re-crop sowing period is required.
Prior to sowing the following Summer broadacre crops Cotton Cowpeas Sorghum Soybeans Prior to starting, or maintaining a fallow. To assist in weed control in Commercial, Industrial and Public Service areas, around Agricultural buildings, yards	Weeds as above if appropriate and in addition: Bladder ketmia (max 6 leaf) <i>Hibiscus trionum</i> , Cowvine (Peachvine) <i>Ipomoea lonchophylla</i> , Marshmallow / Small flowered mallow (max 6 leaf) <i>Malva parviflora</i> , Sowthistle <i>Sonchus oleraceus</i> , Turnip weed <i>Rapistrum rugosum</i> , Wild oats <i>Avena spp.</i> , Wild radish <i>Raphanus raphanistrum</i>	Apply as a tank mix with SHARPEN WG Herbicide. Weed growth stage 2 leaf to 10 leaf Note: Bladder ketmia and small flowered mallow, maximum 6 leaf	Refer to Northern and Southern Australia sections for rates of Roundup Attack plus 9 – 26g/ha SHARPEN WG plus Bonza 1%	Refer to Critical Comments above and in addition: A robust rate of Roundup Attack should be used. A minimum of 1.15L/ha is recommended. Reduction of glyphosate activity on Summer grasses may occur from the tank mix, which may result in reduced control of certain grass weeds. If grass weeds are present and their control is important, it is recommended that a full rate of 1.9L/ha of Roundup Attack is used. Sorghum, cowpeas and soybeans can be sown 1 day after application of SHARPEN WG Herbicide. Sow crops with a seeder that will move treated soil away from the crop row. This is particularly important with cotton, cowpeas, sorghum and soybeans. Use of seeders, or planting under conditions that do not move treated soil from the crop row may increase the level of early crop damage. Minor transient reduction in plant height may be observed in cotton where moist conditions prevail after germination but the crop will soon recover and will not affect yield. Also be careful when applying SHARPEN WG to fields just prior to sowing that will be soon after irrigated as soil water may move herbicide into crop row resulting in injury. If grass weeds recover, a follow up application of a knockdown herbicide with another mode of action may be required. Refer also to the product label for the knockdown herbicide used. Use the lower rates on younger plants or plants growing under good conditions and the higher rates on older plants or plants growing under less optimum conditions. Refer to the plant-back interval table on SHARPEN WG in case a longer re-crop sowing period is required.
	Volunteer cotton seedlings (2-6 leaf), including Roundup Ready Flex® varieties plus weeds above.	Apply to seedling cotton at 2-6 leaf stage	Refer to Northern Australia section for rates of Roundup attack plus 9–26g/ha SHARPEN WG plus Bonza 1%	Refer to Critical Comments above and in addition: The following rates of SHARPEN WG Herbicide are recommended for volunteer cotton control: 9g/ha from cotyledon up to 2 leaf. 17g/ha from cotyledon up to 4 leaf. 26g/ha from cotyledon up to 6 leaf.
Situations as Above	Fleabanes <i>Conyza spp.</i>	maximum 6 leaf	A minimum of 1.15L/ha Roundup Attack plus 17-34g/ha SHARPEN WG plus Bonza 1%	Refer to Critical Comments above and in addition: Use the higher rate in situations where conditions are less favourable for control and for control of fleabane above 4 leaf up to 6 leaf. Fleabane can germinate in Autumn and Spring and it is important to establish size and age (check tap root as an indication) to ensure control. Fleabane that appears small may in fact be older and have an established tap root and may not be completely controlled. Depending on the other weed species present, adjust the rate of Roundup Attack accordingly. A minimum rate of 1.15L/ha is recommended. Refer also to the Critical Comments in relation to Summer grass control.

PRE AND POST HARVEST USES

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Sorghum Control	Grain-sorghum (pre-harvest)	945mL-1.9L/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)	625mL-1.3L/ha	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 50cm in height.
Cotton pre-harvest	Bathurst burr, Noogoora burr, Winter annual weeds	795mL-1.6L/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	850mL-1.7L/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 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.
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>)	300-645mL/ha	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 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.)	Annual Weeds	645mL-1.7L/ha	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.
PRE-HARVEST APPLICATION As harvest aid and weed control: Chick Peas (Application to crops intended for seed production or for sprouting may reduce germination percentage to commercially unacceptable levels.)	Annual Weeds	475mL-1L/ha plus 5g/ha Associate® Herbicide	Apply by boom or by air. Apply when chickpeas are physiologically mature and less than 15% of green pods are present. Use higher rates where crops or weeds are dense and where faster desiccation is required. DO NOT harvest within 7 days of application. Speed of desiccation is dependent on crop stage, growing conditions and weather conditions during and after application.
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.	Annual weeds	1.15- 3.4 L/ha	Apply to mature standing pasture within 1 – 10 days prior to cutting or mowing. Annual pasture includes oats, wheat, triticale, barley, annual ryegrass and other annual forage grasses cut for hay or silage use. Apply with ground boom or aerial equipment. 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 only. DO NOT cut within 1 day after application. A minimum of 3 days prior to cutting is recommended where conditions result in slow translocation in the target plant. Good spray coverage is also important for best results and it is recommended that a minimum application water volume of 70L/ha is used.

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 250mL Roundup Attack plus 3g Associate® per 100L of water Aerial or Boom	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 50cm in height should be controlled when actively growing. Use Pulse® Penetrant at the rate of 200-500mL per 100L water.
	Bracken (<i>Pteridium esculentum</i>)	For Blackberry and Volunteer Pine wildlings: 5L plus	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 200-500mL per 100L of water.
	Gorse (<i>Ulex europaeus</i>)	60g Associate® per ha	For Gorse, apply when actively growing at any time of year, except Spring. Use Pulse® Penetrant at the rate of 200-500mL per 100L of water.
	Lantana (<i>Lantana camara</i>)	For Bracken: 2.5L plus 30g Associate® per ha	For Lantana, apply when actively growing. DO NOT apply during periods of Summer drought stress. Use Pulse® Penetrant at the rate of 200-500mL per 100L 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 200-500mL per 100L 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 200-500mL per 100L 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.
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	For the control of many grasses and broadleaf weeds. RATE: 6.5mL 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.
Agricultural Areas	Roundup Attack 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.
Dry Drains And Channels Only	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.
Forests	Roundup Attack 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.
Non- Agricultural Areas Around Buildings, Commercial and Industrial Areas, Domestic And Public Service Areas, Right-Of-Ways.	Roundup Attack does not provide residual weed control. For residual control of annual weeds, Roundup Attack may be tank mixed with certain residual herbicides. See Tank Mixtures/Compatibility.
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	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 2.6L/ha by shielded boom or directed off-centre nozzle or 320mL/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.
Pasture	DIRECTED (SPOT) APPLICATION Roundup Attack 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. SELECTIVE APPLICATION See Wiper Equipment. BOOM APPLICATION Roundup Attack 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. 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.

WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
ANNUAL WEEDS 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, Sow thistle, Spear thistle, Spiny burgrass, Spurge, Sub clover, Thornapple, Wild mustard, Wild oats, Wild turnip, Winter grass, Variegated thistle, Volunteer cereal	Boom: 1.27-1.9L/ha Handgun: 310-455mL per 100L Knapsack: 45-65mL per 15L	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 Attack does not provide residual weed control. Repeat treatments may be necessary to control later germinating weeds. For residual control of annual weeds Roundup Attack 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 or liverseed grass.
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, Old blue grass, Red-leg grass, Rhodes grass, Rope twitch, Sorrel, Soursob, Yorkshire fog	Boom: 1.8-3.7L/ha Handgun: 445-625mL per 100L Knapsack: 65-95mL per 15L	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 low rate treatments when Nutgrass has a minimum of 6-8 leaves. Use the higher rate in uncultivated situations. For Rhodes grass, Rope twitch, Prairie grass, Old blue grass, Johnson grass, Kangaroo grass, Kikuyu, Redleg grass, Paspalum and Sorrel, use the higher rates only.
Blady grass, Bracken, Couch, Guinea grass, [¶] Paragrass, Silverleaf nightshade, [¶] Water couch [¶] Use on Dry Drains and Channels ONLY (see Use Situations critical comments above)	Boom: 5.6L/ha Handgun: 825mL or 1.27L per 100L Knapsack: 125 or 190mL per 15L	For Bracken add Pulse® at 200-500mL/100L spray mix. 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 1.8-4.0L/ha for control. Only use higher rate for handgun and knapsack for Silverleaf nightshade.
WOODY WEEDS Bamboo, Bitou bush, Boneseed, Boxthorn, Crofton weed, Gorse, Groundsel bush, Lantana, Mistflower	Handgun: 310-625mL per 100L Knapsack: 45-95mL 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, use higher rate only. Bitou bush/Boneseed , apply higher rate on bushes greater than 1.5m. Best results are achieved when treated at peak flower during Winter. Boxthorn minimum rate is 450mL for handgun and 65mL for knapsack. Groundsel bush , apply higher rate on bushes greater than 2m. DO NOT apply in Winter. Minimum rate is 450mL for handgun and 65mL for knapsack. Gorse , always add Pulse® at 200-500mL/100L of spray mix, use higher rate only. Lantana , use higher rate only. Addition of Pulse® (200-500mL/100L) may improve control. Boxthorn, Gorse, Lantana Removal of bushes (after complete brownout), pasture improvement or further treatment are recommended to control seedlings and/or regrowth.
Blackberry, Chinese scrub, Eucalyptus spp. (seedlings less than 2m), Hawthorn, Pampas grass, Sifton bush, Sweet briar, Willow (less than 2m)	Handgun: 625-825mL per 100L Knapsack: 95-135mL per 15L	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 2m high. In Tasmania, DO NOT treat bushes bearing mature fruit. Chinese scrub , use higher rates on bushes greater than 1m. Eucalyptus spp. , add Pulse® at 200-500mL/100L of spray mix. Hawthorn , apply from flowering to leaf fall, use higher rates on bushes greater than 2m. Pampas grass , allow regrowth to reach 1m, best results-apply after flowering. Sifton bush , use higher rates on bushes greater than 1m. Sweet briar , apply from late flowering to leaf fall, use 950mL - 1.3L/100L, and 140 - 190mL/15L, use higher rates on bushes greater than 1.5m.

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

WITHHOLDING PERIODS:

HAY/SILAGE: DO NOT MOW OR CUT 1 DAY AFTER APPLICATION. A MINIMUM 3 DAYS PRIOR TO CUTTING IS RECOMMENDED WHERE CONDITIONS RESULT IN SLOW TRANSLOCATION IN THE TARGET PLANT.

GRAZING: NOT REQUIRED WHEN USED AS DIRECTED

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

ALL OTHER USES: 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 MRL's or import tolerances do not exist in all markets for produce treated with Roundup Attack Herbicide. If you are growing produce for export, please check with Nufarm Australia Limited for the latest information on MRL's and import tolerance before using Roundup Attack Herbicide.

PRODUCT INFORMATION

Roundup Attack 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 Attack 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 20mm of natural rainfall or by applying water via a sprinkler irrigation system.

Roundup Attack 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 Attack 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 Attack Herbicide will not control Roundup Ready® canola volunteers at any leaf stage.

RESISTANT WEEDS WARNING

GROUP	M	HERBICIDE
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Roundup Attack Herbicide with IQ inside is a member of the Glycines group of herbicides. Roundup Attack has the inhibition of EPSP synthase mode of action. For weed resistance management Roundup Attack is a Group M herbicide. Some naturally occurring weed biotypes resistant to Roundup Attack and other Group M 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 Attack or other Group M herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Nufarm accepts no liability for any losses that may result from the failure of Roundup Attack to control resistant weeds.

To minimise the risk of weeds developing resistance to Roundup Attack Herbicide, use in conjunction with herbicides from alternative mode of actions groups and/or non-chemical weed control measures.

CROP ESTABLISHMENT

Roundup Attack 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 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.

MIXING

Roundup Attack 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 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. Fill the spray tank 1/3 to 1/2 full with clean water and start agitation.
2. If adding Liase™ (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 Attack 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. When tank mixing with partner herbicides, follow their directions for cleaning of all equipment as well.

TANK MIXTURES

Roundup Attack 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 50L/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

Nufarm Estercide® 800, Nufarm Estercide® Xtra 680 (2,4-D ester), Nufarm Surpass® 475, Ally*, Amicide® Advance 700, Associate®, Boxer® Gold, Spotlight Plus®, Hammer®, Nu-trazine™ 600, Nu-trazine™ 900DF, Avadex® Xtra, Simazine Hi-Load 600 (simazine flowable or granular), Nufarm Kamba® 500 (dicamba), Express*, Eclipse*, Flame®, Flandor*, Garlon® 600, Hotshot*, Invader®, Glean*, Lusta®, Striker®, Logran® 750WG, Nugran®, Logran B Power (ensure fully dispersed prior to addition of Roundup Attack), Archer®, Lontrel®, Nufarm LVE Agritone® (MCPA LVE), MONZA®, Mako®, Oust®, Rifle®, Rifle® 440, Sakura® 850WG, Comet® 400, Starane® Advanced, Stomp®, Stomp® Xtra, Surflan®, TriflurX®, Triflur Xcel® (trifluralin), Triflur® 600 and Yield*. Other brands have not been tested.

The addition of Striker® at 75mL/ha to recommended rates of Roundup Attack 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*, Le-Mat*, Chlopyrifos 500, Lorsban* 500, Nufarm Dimethoate, Karate*, Sumithion* ULV, 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 100L, 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: 200mL/100L spray solution.

Pulse® Penetrant

Pulse Penetrant is recommended for the control of Bracken and many woody weeds. Rate: 200-500mL/100L spray solution.

Nufarm Liase™ (ammonium sulphate)

Liase 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.

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, a spray volume of 80L/ha or less is recommended for broadacre uses and 200L/ha or less for treeline and vineline spraying in orchards and vineyards. Glyphosate works better when it is present at a higher concentration in the spray solution provided sufficient coverage of the target is achieved. Nozzles and pressure settings should be selected to deliver a COARSE to VERY COARSE spray quality (as defined by ASAE S572) at the target. The use of nozzles and/or pressure settings that produce VERY FINE or FINE spray quality should be avoided as these are prone to loss or drift. In multiple product tank mixes a minimum water volume of 50L/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 80L/sprayed ha is recommended using nozzle types and pressure settings to deliver a COARSE ASAE S572 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 Attack. 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 665mL Roundup Attack with 2.3L clean water. Adjust flow rate to suit equipment.

Controlled Droplet Application Equipment (CDA)

Roundup Attack 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. Use of Roundup Attack at concentrations recommended for Roundup® can result in uneven droplet distribution. Spray units need to be cleaned thoroughly preferably after each application to ensure optimum performance.

DO NOT add oils to Roundup Attack/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 Attack 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 2.6L/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 COARSE to VERY COARSE spray quality (as defined by ASAE S572). In multiple product tank mixes a minimum water volume of 50L/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 eg, 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 Attack 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 30-80L/ha and use a COARSE spray quality to optimise spray coverage.

Air temperature and relative humidity

DO NOT apply Roundup Attack 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%.

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.

For further information refer to nufarm.com.au/spraywise



spraywisedecisions.com.au is an online weather forecasting program and is recommended for use when planning your pesticide application

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.

STORAGE AND DISPOSAL

QuikPour™ (15L box only)

Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight. DO NOT separate inner bladder from outer carton. Single rinse or shake remainder into spray tank/water/dip/drench etc. Puncture outer carton and bladder. DO NOT dispose of undiluted chemicals on site. If recycling, return clean containers to recycler or designated collection point. If not recycling deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500mm 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.

(5L, 10L, & 20L)

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. 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 in compliance with relevant Local, State or Territory government regulations.. Empty containers and product should NOT be burnt.

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 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. When using controlled droplet applicator, wear protective waterproof clothing and impervious footwear. 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

MATERIAL SAFETY DATA SHEET

For further information refer to the Material Safety Data Sheet (MSDS), which can be obtained from your supplier or the Nufarm website - www.nufarm.com.au

In case of emergency: Phone 1800 033 498 Ask for shift supervisor. Toll free 24 hours.

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