

Product Name: APVMA Approval No:

TITAN GLYPHOSATE 450 HERBICIDE 50345/109260

Label Name:	TITAN GLYPHOSATE 450 HERBICIDE
Signal Headings:	CAUTION
	KEEP OUT OF REACH OF CHILDREN
	READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Constituent	450 g/L GLYPHOSATE PRESENT AS THE ISOPROPYLAMINE SALT
Statements:	

Mode of Action:			
	GROUP	Μ	HERBICIDE
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Statement of Claims:A non-selective foliar herbicide for control of a wide range of annual and perennial grasses and broadleaved weeds as per the directions for use table.

Net Contents:	110L 20-1000L BULK
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Restraints:	 DO NOT apply to weeds under stress. DO NOT apply if rain is expected within 6 hours. DO NOT graze areas where plants toxic to stock are present until weeds are completely brown. DO NOT disturb treated areas in any way for 1 day after application to annual weeds, or for 7 days after treatment of perennial weeds. DO NOT treat weeds under poor growing conditions or dormant conditions as occur in drought, waterlogging, disease, insect damage or following frost. DO NOT treat weeds heavily covered with dust or silt. Rainfall occurring up to 6 hours after application may reduce effectiveness. Heavy rainfall within 2 hours of the application may wash the chemical off the foliage and repeat treatment may be required
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Other Limitations:	

Withholding Periods:	WITHHOLDING PERIOD:
	WHEAT AND LEGUMES: DO NOT HARVEST GRAIN, GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION
	ALL OTHER USES: NOT REQUIRED WHEN USED AS DIRECTED

Trade Advice:

General Instructions:	GENERAL INSTRUCTIONS TITAN Glyphosate 450 Herbicide is a non-volatile, non-selective water soluble herbicide which is absorbed by plant foliage and green stems and is translocated through the plant from point of contact and into the root system. The effects of the herbicide may not be visible for 3-7 days for annual weeds or 2-3 weeks for perennial weeds depending on water quality, weather conditions, weed species and rate used. TITAN Glyphosate 450 Herbicide will control emerged weeds only and does not provide residual weed control. Ideally, weeds should be healthy and actively growing and, to obtain optimum results, should not have been recently sprayed with another herbicide. TITAN Glyphosate 450 Herbicide can be de- activated by soil particles and hard water containing calcium salts. Use only clean, fresh water for making up spray solutions, preferably rainwater or local authority water. DO NOT apply TITAN Glyphosate 450 Herbicide to wet plants or if heavy rainfall is expected within 6 hours. Avoid spraying at night if rain is expected the next morning. TITAN Glyphosate 450 Herbicide is recommended for control of emerged weeds prior to crop establishment as part of a conservation tillage operation. With heavy weed growth, sowing should be delayed until weed decay and soil conditions allow formation of a satisfactory seedbed. CROP ESTABLISHMENT TITAN Glyphosate 450 Herbicide is recommended for the control of emerged weeds prior to crop establishment. However, suitable cultivation and/or sowing procedures are required to provide seedbed conditions favourable for crop germination and development. Early spraying to control young weeds will favour preparation of suitable seedbed. Incorporation or trashing of green or decaying vegetation and nots into seedbed. Incorporation or trashing of green or decaying vegetation and nots into seedbed. Incorporation or transhing of green or decaying vegetation and nots into seedbed. Incorporation or transhing of green or decaying vegetation and roots into seedbeds by cultivat
	MIXING DO NOT mix, store or apply this product or spray solutions of this product in galvanised or unlined steel containers or spray tanks, since a highly flammable gas may be formed. Use stainless steel, aluminium, brass, copper, fibreglass, plastic or plastic-lined containers or spray tanks. TITAN Glyphosate 450 Herbicide readily mixes with clean water. Use only clean, fresh water free from soil particles or calcium/magnesium salts (i.e. do not use hard water). If water is acidic use a recognised buffering agent. Spray solution should be used within a maximum of five days to avoid loss of activity. Ensure the spray tank is free of any residue from previous spray products. Fill spray tank with half required volume of clean, fresh water and then add measured amount of TITAN Glyphosate 450 Herbicide as per Directions for Use (rate). Agitate well and fill with balance of water adding surfactant
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near end of filling with hose below surface to prevent excessive foaming. Remove hose when desired volume is reached to avoid siphoning. When adding compatible pesticides/ additives add these first in a half full tank with agitation and then add TITAN Glyphosate 450 Herbicide with the remaining water volume and, finally, surfactant as above, mixing thoroughly. DO NOT use mechanical agitators as these may cause excessive foaming. DO NOT mix with spraying oils, agricultural chemicals or any other material except as directed on the label.

TANK MIXTURES/COMPATIBILITY

TITAN Glyphosate 450 Herbicide may be tank mixed with the following pesticides and additives with attention to their labels for specific restraints, withholding periods and directions for use requirements to be observed.

Herbicides: • Flowable Atrazine: For knockdown and residual weed control, addition of ammonium sulphate is required to overcome antagonism. (See note below). Observe all current restrictions on Atrazine use. DO NOT use this tankmix on Barnyard Grass. DO NOT apply this mix by aerial application. • Flowable Simazine: For knockdown and residual control of annual weeds, addition of ammonium sulphate is required to overcome antagonism (see note below). • 2,4-D Ester For improved control of certain broadleaf weeds. Observe regional restrictions. • Dicamba: For improved control of clover, medics and sorrel as per label directions. • Chlorsulfuron: For knockdown and residual weed control in fallow/crop. Observe plant back periods as per label. • Metsulfuron-methyl: For knockdown weed control in fallows and prior to planting certain winter cereals. Observe crop safety/crop rotation recommendations. • Oxyfluorfen: Mixture requires a specific compatibility agent, seek advice from labels.

Note: Addition of ammonium sulphate at the rate of 2kg/100L spray solution is recommended to overcome antagonism. This mixture is also useful for improving the performance of TITAN Glyphosate 450 Herbicide under adverse environmental conditions such as cool cloudy weather. Ammonium sulphate may be corrosive to metal parts of spray equipment. Insecticides: • Dimethoate • Omethoate • Fenitrothion • Chlorpyrifos Other insecticides have not been compatibility tested.

APPLICATION INFORMATION

TITAN Glyphosate 450 Herbicide is a non-selective, translocated herbicide. Direct contact, or even drift, may cause severe injury or destruction to any growing crop or other desirable plants including trees. Boom equipment: Application of this product in low spray volumes (25-100L/ha) is recommended. Fan nozzle equipment is recommended, using pressures in the range 240-280kPa. Boom height must be set to ensure double overlap of nozzle patterns at the top of the weed canopy.

Aerial Equipment: Aerial application should only be in pasture or fallow crop situations prior to establishment of field or fodder crops or new pasture and for pre harvest application for sorghum crops. DO NOT use in intensive cropping situations. Use registered rates up to a maximum of 3.2L/ha and for Micronair and boom equipment apply in a minimum spray volume of at least 15L/ha. Average droplet size should be 250-350 micron diameter with a swath width of 15-17 metres. DO NOT apply by aircraft in temperatures above 35°C. Aerial Application on hilly terrain: Increase water volume to 30-80L/ha with droplet size to at least 300 micron VMD on hilly terrain. Aerial Application under hot conditions: When applying in temperatures above 25°C, increase water volume to at least 30L/ha and droplet size to at least 300 micron VMD. Avoid conditions which may result in drift such as wind over 8km/h and inversion conditions or equipment producing droplets of 150 micron or less.

MAINTENANCE AND CLEANING Thoroughly flush tanks, pumps and nozzles with clean fresh water after each day's spraying.

Resistance Warning:	RESISTANT WEEDS WARNING
	TITAN Glyphosate 450 Herbicide is a member of the glycine group of herbicides. TITAN
	Glyphosate 450 Herbicide has the inhibitor of EPSP synthase mode of action. For weed
	resistance management TITAN Glyphosate 450 Herbicide is a group M herbicide. Some
	naturally occurring weed biotypes resistant to TITAN Glyphosate 450 Herbicide and other
	inhibitors of EPSP synthase 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 TITAN Glyphosate 450 Herbicide or other inhibitors of EPSP synthase herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, TITAN AG Pty Ltd accepts no liability for any losses that may result from the failure of TITAN Glyphosate 450 Herbicide to control resistant weeds. DO NOT however assume resistance without first reviewing the method of application, timing, water quality and weather conditions

Precautions:	

Protections:	PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS DO NOT apply under meteorological conditions or from spraying equipment that could be expected to cause spray drift onto nearby susceptible plants, adjacent crops, crop lands or pastures. DO NOT apply prior to transplanting tomato seedlings.
	PROTECTION OF WILDLIFE, FISH, CRUSTACEANS 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	STORAGE AND DISPOSAL
Disposal:	20L and 200L Containers: Store in the closed original container in a cool, wellventilated area. Avoid prolonged storage in direct sunlight. DO NOT contaminate seed, feed or
	 foodstuff. DO NOT mix, store or apply this product or spray solutions of this product in galvanised or unlined steel containers or spray tanks, since a highly flammable gas may be formed. Use stainless steel, aluminium, brass, copper, fibreglass, plastic or plastic-lined containers or spray tanks. 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 empty containers in a local authority landfill. If no land fill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. 100L,
	110L, 120L and 220L Containers: Store the original sealed Envirodrum in a cool well- ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the Envirodrum with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the Envirodrum have been used, please return the Envirodrum to the point of purchase. The Envirodrum remains the property of TITAN AG Pty Ltd.
	1000L and Bulk: Store in the closed original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Storage must be secure so that contents cannot be tampered with. All locks and/or seals must be in order. If locks or seals are broken prior to initial use then the integrity of this product cannot be assured. If this occurs TITAN AG Pty Ltd should be notified immediately. This minibulk/bulk container is reusable and remains the property of TITAN AG Pty Ltd. DO NOT rinse empty container. Empty contents fully into application equipment. Close all valves and return to the point of supply for refill or storage. No other liquid, solid or pesticide product should be put into it. When empty return to TITAN AG Pty Ltd for cleaning, relabelling and refilling.

Safety Directions:SAFETY DIRECTIONS
Product will cause serious eye damage. Will irritate skin. Avoid contact with eyes and skin.
When preparing product for use wear elbow-length PVC gloves and face shield or goggles.
After use and before eating, drinking or smoking, wash hands, arms and face thoroughly

with soap and water. After each day's use wash contaminated clothing, gloves and face shield or goggles. When using controlled droplet applicator, wear protective waterproof clothing and impervious footwear.

First Aid Instructions: FIRST AID If poisoning occurs, contact a doctor or Poisons Information Centre Phone Australia 13 11 26.

First Aid Warnings:	:		
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DIRECTIONS FOR USE

C ROP/	WEEDS	STATE	BOOM SPRAY	CRITICAL COMMENTS
SITUATION	CONTROLLED	1014	RATE/ha	
SOUTHERN	Barley Grass	NSW,	400-800mL pre-	Treat only actively growing weeds not under stress from low moisture, frost, cold,
AUSTRALIA	(Amaranthus	VIC,	tillering + 800	disease or waterlogging. If heavy grazing has occurred allow regrowth to 6-8cm
Winter crop	spp.), Brome	SA,	mL-1L post-	before spraying and use the higher rate.
or pasture,	Grass (Bromus	WA	tillering	RATE SELECTION Increase to higher rates late in the season or when treating
prior to	spp.), Capeweed	only		under cold/overcast conditions. FULL DISTURBANCE with a cultivation or sowing
disturbance	(Arctotheca			with tyned implement may start one day after treatment (7 days if Dock, Phalaris,
by	calendula),			Skeleton Weed, Soursob, or Sorrel are present) and should occur within 21 days
cultivation	Doublegee			after treatment. When treating light infestations or seedling annual grasses (pre-
and/or	(Emex australis),			tillering) and annual broadleaved weeds (less than 8cm dia/height). cultivation or
sowing with	Volunteer			sowing may start 6 hours after treatment and should occur within 21 days.
tyned	Cereals, Wild			CROP ESTABLISHMENT Sowing should not proceed until conditions allow the
equipment	Oats (Avena			formation of a satisfactory seedbed. See Crop Establishment for directions.
	spp.)			ANNUAL RYEGRASS, SILVERGRASS AND PERENNIAL GRASSES Addition of a
	Annual Phalaris,		800mL-1.0L pre-	registered non-ionic surfactant containing 1040g/L Octyl phenol ethoxylate'
	Annual Ryegrass,		tillering + 1L-	200mL/100L spray solution, may improve control. When treating dense infestations
	Silvergrass,		1.2L post-	of Silvergrass, use of low volume nozzles (e.g. SS11001, Hardi No. 10) and a
	Winter Grass	-	tillering	spray volume of 70L/ha or more is recommended to improve spray coverage.
	Capeweed,		400-800mL less	
	Doublegee		than 8cm	
	(Spiny Emex,		diameter/height	
	Three Cornered		800mL-1.2L	
	Jack), Calomba		greater than	
	Daisy		8cm	
			diameter/height	
	Amsinckia	NSW,	800mL-1L pre-	TANK MIXTURES
	(Amsinckia spp.),	VIC,	tillering + 1-1.2L	For improved control of Clover add TITAN Dicamba 500. Read and follow all label
	Fumitory	SA,	post-tillering	directions, restraints, plantback periods, withholding periods, regional use
	(Fumaria spp.),	WA		restrictions and safety directions for the tank mix products. See Tank Mixtures for
	Paterson's Curse	only		directions.
	(Echium			
	plantagineum),			

(Cartha lanatus Thistle (Onopo acanthi Spear (Cirsiur Variega Thistle marian Volunte Wild Tu (Brassi tournef Perenn Phalari Skeleto (Chond juncea) emerge - (NSW Sorrel I Acetos Sourso pes-ca Sub-clo (Trifoliu subterr), Scotch rdum um), Thistle n vulgare), ated (Silybum um), eer Lupins, irnip ca ortii ial s, in Weed rilla - fully ed rosettes only), Rumex ella), b (Oxalis orae), over	1.2 L 800mL-1.2L	PERENNIAL WEEDS For Perennial Phalaris, Soursob, Skeleton Weed and Sorrel, TITAN Glyphosate 450 will provide knockdown, seasonal suppression and reduction in treated plant numbers
	eedling)	800mL-1.2L 1.2L-2.4L	Use 1.2L/ha on annual weeds. Increase to 2.4L/ha where perennial weeds are being treated. To control White Clover and improve control of Sorrel and Dock add 1L TITAN Dicamba 500. Observe TITAN Dicamba 500 label directions, and plant back periods.

SOUTHERN AUSTRALIA prior to establishing a crop or pasture with an implement that gives minimal or no disturbance	Barley Grass (Hordeum leporinum), Volunteer Cereals, Wild Oats (Avena spp.)	NSW, ACT, VIC, SA, WA only	800mL-1.2L	Treat only actively growing weeds not under stress from low moisture, frost, cold, disease or waterlogging. If heavy grazing has occurred, allow regrowth to 6-8cm before spraying and use the higher rate. RATE SELECTION Use the lower rate on young weeds; increase the higher rate where grasses reach full tillering or where broadleaf weeds reach stem elongation/budding. Increase to higher rates in Spring or when treating under cold/overcast conditions. AERIAL APPLICATION Use the higher rates. See Aerial Equipment. ANNUAL RYEGRASS, SILVERGRASS AND PERENNIAL GRASSES Add a registered non-ionic surfactant containing 1040g/L Octyl phenol ethoxylate 200mL/100L spray solution. When treating dense infestations of Silvergrass, use of low volume nozzles (e.g. SS11001, Hardi No. 10) and a spray volume of 70L/ha or more is recommended to improve spray coverage. TANK MIXTURES For improved control of Dock. Sorrel and Sub Clover, add TITAN Dicamba500. Read and follow all label directions, restraints, plant back periods, withholding periods, regional use restrictions and safety directions for the tank mix products. See Tank Mixtures for directions. Addition of ammonium sulphate, 2kg/100L, may improve control when treating under adverse environmental conditions. PASTURE OR CROP ESTABLISHMENT DO NOT sow into excessive trash. Trash may be removed by grazing after treatment. Grazing may commence one day after treatment of annual weeds (small) and 7 days for perennial weeds. Delay grazing for three days where annual weeds are large. Sowing may proceed when excessive trash is removed, but not sooner than one day after treatment of annual weeds and 7 days for perennial weeds. See also Crop Establishment. AERIAL (OR SURFACE) SEEDING Delay seeding until trash is completely removed by grazing and/or plant decay. When establishing pasture, ensure application of fertilizer and insecticides and follow-up management is undertaken as required
	Brome grass, Canary grass (Annual Phalaris), Capeweed, Variegated		1.0 – 1.6 L	

	Thistle, Winter grass			
	Annual ryegrass, Paterson's curse, Saffron thistle, Scotch thistle, Silvergrass, Wild mustard, Wild radish, Wild turnip		1.2-1.6L	
	Erodium, Perennial phalaris, Plantain, Sorrel, Sub clover, Yorkshire fog Dock, Flatweed		1.5-2.0L 2.0L	
	All of the above weeds	TAS only	1.2-2.4L	Use 1.2L/ha on annual weeds. Increase to 2.4L/ha where perennial weeds are being treated. To control White Clover and improve control of Sorrel and Dock, add 1L/ha TITAN Dicamba 500. Observe TITAN Dicamba 500 label directions and plant back periods.
SOUTHERN AUSTRALIA weed control to commence fallow	Barley Grass, Volunteer Cereals, Wild Oats	NSW, ACT, VIC, SA, WA only	800mL-1.2L	Treat only actively growing weeds not under stress from low moisture, frost, cold, disease or waterlogging. If heavy grazing has occurred, allow regrowth to 6-8cm before spraying. RATE SELECTION Use the lower rate on young weeds or where cultivation is to follow within 21 days. Increasing to the high rates where grasses reach full tillering or where broad leaf weeds reach stem elongation/budding. ANNUAL RYEGRASS,
	Annual ryegrass, Brome grass, Capeweed, Paterson's curse (rosette), Saffron thistle, Scotch thistle,		1.2 - 1.6 L	SILVERGRASS AND PERENNIAL GRASSES Add a registered non-ionic surfactant containing 1040g/L Octyl phenol ethoxylate at 200mL/100L spray solution. When treating dense infestations of Silvergrass, use of low volume nozzles (eg. SS11001, Hardi No. 10) and a spray volume of 70L/ha or more is recommended to improve spray coverage. HOARY CRESS Treat from late rosette to early flowering. SOURSOB Treat at tuber exhaustion. COUCH Use the higher rate on dense infestations. Apply sequential treatments during Summer and

	Silvergrass, Spear thistle, Wild mustard, Wild radish, Wild turnip Hoary cress Soursob		1.2 L-1.6 L	Autumn, with Autumn being most effective. Repeat applications will be required for full control. For improved control use in conjunction with cultivation. TANK MIXTURES Read and follow all label directions, restraints, plant back periods, withholding periods, regional use restrictions and safety directions. HOARY CRESS Treat from late rosette to early flowering. SOURSOB
	Couch		1.2-2.4L	 Treat at tuber exhaustion. COUCH Use the higher rate on dense infestations. Apply sequential treatments during summer and autumn, with autumn being the most effective. Repeat applications will be required for complete control. For improved control use in conjunction with cultivation. TANK MIXTURES Read and follow all label directions, restraints, plantback periods, withholding periods, regional use restrictions and safety directions
	All the above weeds	TAS only	1.2L-2.4L	Use 1.2L/ha on annual weeds. Increase to 2.4L/ha where perennial weeds are being treated. To control White Clover and improve control of Sorrel and Dock, add 1L/ha TITAN Dicamba 500. Observe TITAN Dicamba 500 label directions and plant back periods
NORTHERN AUSTRALIA Fallow or prior to sowing Winter or	Annual Phalaris, Barley Grass, Volunteer Cereals, Wild Oats Barnyard Grass,	QLD, NSW only	400-800mL 800ml-1.6L	Treat only actively growing weeds not under stress from low moisture, frost, cold disease or waterlogging. If heavy grazing has occurred, allow regrowth to 6-8cm before spraying. Note that under Summer (hot) conditions, dense infestations of Barnyard Grass and Liverseed Grass may require follow-up treatment for complete control. In Winter (cold) conditions, symptoms on Deadnettle may be slow to develop.
Summer crops	Button Grass, Columbus Grass (Seedling), Liverseed Grass, Native Millet, Stinkgrass (Lovegrass), Volunteer Sorghum			RATE SELECTION Use the lower rate on young weeds; increase to the higher rate where grasses reach full tillering or where broadleaf weeds reach stem elongation/budding. At more advanced stages of growth certain broadleaf weeds require a higher rate or the addition of 2,4-D Ester. CROP ESTABLISHMENT Sowing should not proceed until conditions allow the formation of a satisfactory seedbed. See Crop Establishment for directions. TANK MIXTURES Read and follow all label directions, restraints plant back periods, withholding periods, regional use restrictions and safety directions for the

Amaranth,	800 mL-1.2L	tank mix products. DO NOT tank mix with Atrazine when spraying Barnyard Grass
Australian		or Liverseed Grass.
Bluebell (QLD		AERIAL APPLICATION For instructions on aerial application, under hot conditions,
only), Cudweed		see Aerial Equipment. DO NOT apply by aircraft when temperature is above 30°C.
Fumitory,	, 	
Mexican Poppy		
New Zealand	,	
Spinach, Saffron	n	
Thistle, Spear		
Thistle, Spurge,		
Stinking		
Goosefoot		
Black (Giant)	400-800mL up	
Pigweed,	to 5 true leaves	
Boggabri Weed	, or 3cm	
Caltrop (Yellow		
Vine), Indian	800mL-1.2L	
Hedge Mustard	, greater than 5	
Mintweed,	true leaves or	
Summer Grass	3cm dia/height	
African Turnip	600-800mL up	
Weed,	to 5 true leaves	
Deadnettle,	or 3cm	
Sweet Summer	dia/height	
Grass,	800mL-1.6L	
Variegated	greater than	
Thistle, Volunte	er 3cm dia/height	
Sunflower		
Annual Ground	800mL-1.2L	
Cherry	prior to stem	
(Gooseberry),	elongation/	
Camel Melon,	budding. After	
Bladder Ketmia,	, that use 400mL-	
False Castor Oi	I 1.2L plus 500-	
Plant/Thornappl	le, 700mL 2.4-D	

	Noogoora Burr, Turnip Weed, Wild Lettuce, Wild Turnip, Wireweed		Ester (800g/L) OR 1.2L-1.6L	
	Pigweed		800mL-1.6L up to 20cm dia	Use a higher rate on larger weeds. Control of pigweed over a wide range of growth stages can be obtained with the addition of TITAN Metsulfuron. Observe re-cropping intervals.
	Sowthistle, Milkthistle (Sonchus oleraceus)		600-800mL rosettes up to 3cm dia 800mL-1.6L greater than 3cm dia	Previously grazed plants may be difficult to control without allowing full recovery.
	Couch (Cynodon dactylon		1.2L-2.4L	Use the higher rate for dense infestations. Apply sequential treatments during Summer and Autumn with Autumn being most effective. Repeat applications will be required for full control. For improved control use in conjunction with cultivation.
	Johnson Grass (Sorghum halapense		1.6L-2.4L	Use the higher rate on plants approaching seedhead stage. Apply to plants with a minimum of 30cm new growth. Sequential treatments will be required for long term control.
	Nutgrass (Cyperus rotundus)		2.4L + 2.4L	Make first application to actively growing plants when at least 20% have reached the head stage (normally about February). After allowing maximum re-emergence to occur (normally in 6-8 weeks), it is essential to make a second application. Note: Follow-up treatments should be made as part of a Nutgrass control problem.
Pasture manipulation	Carpet Grass (Axonopus spp.), Kikuyu (Pennisetum clandestinum), Paspalum (Paspalum dilatatum)	QLD, NSW, VIC, WA only	1.1L-4.8L	Use for suppression of these grasses prior to drilling forage species or soybeans. Higher rates give greater control.

Pasture renovation Poa Tussock infestations	Most annual weeds and suppression of Poa (Poa labilladieri	QLD, NSW, VIC, TAS only	2.4L-3.2L	Graze heavily then allow 14 days for strong regrowth. Apply to actively growing plants after the Autumn break, but before heavy frosts – March to May. Higher rates give greater control. Sowing may commence 14 days after treatment. Ensure proper follow-up pasture establishment and management after treatment.
Pasture topping	Annual Ryegrass (Lolium rigidum), Barley Grass (Hordeum leporinum), Brome Grass (Bromus spp.), Capeweed (Arctotheca calendula), Silvergrass (Vulpia spp.)	NSW, VIC, SA, WA only	240-360mL	Use higher rate for severe infestation and for annual Ryegrass. Apply to Capeweed and annual Ryegrass at flowering. Apply to other grasses from head to milky dough stage, before signs of haying-off. Use 50L/ha water, or less. If using more water, add a non-ionic surfactant at recommended rates. Reduction in pasture legume population may occur.
Pasture – Bent Grass infestations	Most annual weeds Bent Grass (Agrostis capillaris)	VIC, TAS only	2L	Remove stock to ensure strong leaf growth. Apply to actively growing weeds with some seed head development in late spring. Disturb 10-21 days after treatment with tyned equipment. Follow with a Summer crop, then re-seed pasture or crop next Autumn.
Rice – direct drill	Annual Phalaris (Canary Grass), Annual Ryegrass (Lolium rigidum), Barley Grass (Hordeum leporinum), Burr Medic (Medicago spp.), Sub-Clover (Trifolium subterraneum), Winter Grass (Poa annua)	NSW only	800mL-1L	Apply to actively growing weeds and at least 6-8cm high. Use high rate for severe infestations of Annual Ryegrass and add non-ionic wetter. Direct drilling may commence 1-14 days after treatment. For residual weed control, permanent water, and approved selective herbicide treatments will be required.

Sorghum (NOT seed varieties or those	Grain Sorghum (Sorghum bicolor) - pre- harvest	QLD, NSW only	1.2L-1.6L	Use high rate for ratoon re-growth. Apply when grain moisture is less than 25%. DO NOT apply to plants under stress.
sensitive to lodging)	Sorghum Stubble - post-harvest		800mL-1.2L	Use this rate for re-growth from slashed stubble and for fresh spring re-growth. Apply when fresh regrowth is at least 20cm high. DO NOT apply to plants under stress
Sugar cane	Ratoon control	QLD, NSW only	3.2L-7.2L	Apply to actively growing ratoons 60-100cm high. Use low rate for suppression or where cultivation will follow. Use higher rate for control. Apply with properly calibrated boom spray at correct height to allow overlap of spray pattern at top of crop canopy. DO NOT apply if plants are under stress.
Cotton pre- harvest DO NOT use on crops intended for seed production	Bathurst Burr (Xanthium spinosum), Noogoora Burr (Xanthium pungens) Winter annual weeds including Sow Thistle/Milk Thistle (Sonchus oleraceus)	QLD, NSW only	1L-2L	Use the lower rate on light infestations of small weeds, where the crop canopy allows adequate spray coverage of the weeds. Increase to the higher when the crop canopy may limit spray coverage, when treating dense infestations. or when treating larger weeds. Apply alone or in tank mixtures with Escalate* . Apply when at least 60% of bolls are open end immature bolls cannot be easily cut with a knife. Where a leafy canopy limits spray coverage, reduced weed control can be expected. For best results under these conditions, delay application until canopy re-opens following the initial conditioning treatment. Where control of Nutgrass or Noogoora Burr is required, treatments should be applied prior to the onset of frosts. When tank mixed with defoliants, a slightly higher proportion of cotton leaf may be retained, particularly where the higher rate is used. Read and follow all directions
	Nutgrass seasonal suppression only		2L	for the tank mix products.
Cotton Shielded sprayers	Refer to weeds controlled in the section Northern Australia: In fallows or prior to sowing a crop	QLD, NSW only	-	Apply TITAN Glyphosate 450 Herbicide to weeds growing between Crop rows using a shielded sprayer. DO NOT apply in crops less than 20cm high. DO NOT allow spray or spray drift to contact any part of the cotton plant as severe injury or destruction may result.

CROP/	WEEDS	STATES	APPL	ICATION F	RATES	CRITICAL COMMENTS
SITUATION	CONTROLLE		Boom	Handgu	Knapsa	
	D		spray	n per	ck	
			per	100L	per 15L	
			Ha	water		
WOODY AND PERENNIAL WEEDS IN PASTURES, FORESTS AND NONAGRICUL TURAL AREAS (Spot directed	Bent Grass (Agrostis tenuis)	VIC, TAS only	2L	400mL	60mL	Apply to actively growing plants in late Spring but before Summer drought stress. Pasture should NOT be heavily grazed at spraying. Bent Grass should have full leaf growth and some seed head development. Note: Bent Grass re- establishes vigorously from seed in the soil. Follow up management is required to limit seedling reestablishment. Application of this product may be followed by a Spring crop, and/or by re-seeding pasture or crop the following Autumn.
or wiper application is required for selectivity in established pastures and	Bitou Bush/Bonesee d (Chrysanthem oides monilifera)	QLD, NSW, ACT, VIC, TAS only	-	800mL	120mL	Apply to actively growing plants. Spray to wet all foliage. DO NOT apply during periods of drought stress. Further treatment may be necessary to restrict seedling re- establishment.
forests	Blackberry (Rubus fruticosus)	ALL STATES	-	800mL- 1L	120- 160mL	Apply from flowering to leaf fall (generally January-May). Plants should not be under stress of high temperature, drought or frost. Spray to wet all foliage. Use the higher rate on old, dense infestations over 1.75m high. Visible symptoms may not be fully apparent, until the next season. Burning (after complete brownout), pasture improvement and/or further treatment are recommended to control seedlings and/or regrowth. Use of CDA equipment is not recommended. In Tasmania, do not treat bushes bearing mature fruit.
	Blady Grass (Imperata cylindrica)	QLD, NSW, ACT only	7.2 L	1L	160mL	Apply to actively growing plants when most have reached the head stage

Af (L	oxthorn, frican _ycium erocissimum)	ALL STATES	-	–560- 800mL	80- 120mL	Use the lower rate for young bushes; increase to the higher rate for large, mature bushes. Spray to wet all foliage. DO NOT spray during periods of summer drought stress. Burning (after complete brownout), pasture improvement and/or further treatment are recommended to control seedlings and/or regrowth. Use of CDA equipment is not recommended.
(P es Bi	racken Pteridium sculentum) rown Beetle trass	ALL STATES NSW, ACT only	-	1.2L	180mL	Use of wiper equipment is recommended. Refer to Wiper Equipment under General Instructions. Multirope equipment is preferred. Double pass application is required for pipewick equipment. Bracken should be slashed in Spring/Summer prior to treatment. Apply in March/May to fully unfurled actively growing fronds but prior to frosts. Visible symptoms may be slow to develop and may not be fully apparent until the next season. Complete control will not be achieved from one application. Repeat treatment is recommended, preferably associated with pasture improvement
(A	arpet Grass Axonopus pp.)	ALL STATES	2.4L	400mL	60mL	Apply to actively growing plants at the early head stage.
C.	ocksfoot Dactylis Iomerata)	ALL STATES	2.4L	560mL	80mL	Apply to actively growing plants at the early head stage.
(C	ouch Cynodon actylon)	ALL STATES	7.2L	1.0L	160mL	Apply to actively growing plants when most have reached the early head stage. In SA and WA apply to active plants during October-November for best results.
(E	rofton Weed Eupatorium denophorum)	QLD, NSW, ACT only	-	400mL	60mL	Apply to actively growing plants with full foliage. Further treatment and/or pasture improvement are recommended to restrict seedling re-establishment.
	umbungi Гypha spp.)	ALL STATES	7.2L	1L	160mL	Apply to actively growing plants at the early head to full head stage (Summer-Autumn). Re-treatment may be required to restrict seedling re-establishment. For application by wiper method refer to WIPER EQUIPMENT under general

						instructions. Use of wiper equipment is not recommended for Cumbungi in Tasmania.
(Ca (Hy	weed A t's Ear) pochoeris icata)	ALL STATES	2.4L	560mL	80mL	Apply to fully developed rosettes at the early flowering stage.
Wat Gra (Gly	termeadow	TAS only	4.8L	800mL	120mL	Apply to actively growing plants at the mature head stage in late Summer-Autumn. Add a non-ionic surfactant at 200- 250mL/100L. Control of Glyceria is only available in dry drains and channels and dry margins of dams, lakes and streams. Please refer to PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT.
(Ule euro	ex opaeus)	ALL STATES	-	800mL plus Pulse* 200mL	-	Apply all year round, but only to actively growing plants. Always add Pulse, otherwise reduced results will occur. Spray to wet all foliage. Burning (after complete brownout), pasture improvement and/or further treatment are recommended to control seedlings and/or regrowth.
Bus (Ba		QLD only	_	560- 800mL	80- 120mL	Apply to actively growing plants. DO NOT apply during winter, or during periods of Summer drought stress. Use the higher rate on bushes over 2m tall. Spray to wet all foliage. Further treatment and/or pasture improvement are recommended to control seedlings and/or regrowth. Low Volume Application (e.g. Splatter Gun and Gas Gun): Use 1:9 (10%) mixture of product:water. Apply 2x2mL dose per 0.5m Bush height. Ensure spray contacts all foliage. Use of CDA equipment is not recommended.
(Pa		ALL STATES	7.2L	1.0L	160mL	Apply to actively growing plants when most have reached the early head stage. For application by wiper method refer to WIPER EQUIPMENT under general instructions.
	ataegus \	NSW, ACT, VIC, TAS, SA, WA, only	-	800mL- 1.0L	120- 160mL	Apply to actively growing plants from late flowering to leaf fall. Spray to wet all foliage. Use the higher rate on bushes over 2m high. Burning (after complete brownout), pasture improvement and/or further treatment are recommended to control seedlings and/or regrowth. Low Volume Application (e.g. Splatter Gun and Gas Gun): Use 1:9 (10%) mixture of

						product:water. Apply 2x5mL dose per 0.5m Bush height. Ensure spray contacts all foliage
(Ca	oary Cress ardaria aba)	NSW, ACT, VIC only	1.2L	400mL	60mL	For maximum long term reduction apply from late July to September when plants are in late rosette to flowering stage. Plants should be actively growing and not under stress or drought, frost or waterlogging. Application may be integrated with long fallow. Cultivation may start 7 days after spraying. Wiper equipment may be used where sufficient stem elongation occurs. Refer to WIPER EQUIPMENT under general instructions.
(So hai Ka Gra (Th au: Kik (Pe	hnson Grass orghum Ilepense), angaroo rass hemeda Istralis), kuyu Grass ennisetum andestinum)	ALL STATES	4.8L	800mL	120mL	Apply to actively growing plants when most have reached the early head stage. For application by wiper equipment on Johnson Grass, off-type and Volunteer Sorghum refer to WIPER EQUIPMENT.
(La	intana antana mera)	QLD, NSW, ACT only	-	800mL	120mL	Apply to actively growing plants with full foliage. Ensure complete treatment of individual plants. DO NOT spray during periods of summer drought stress. Burning (after complete brownout), pasture improvement and/or further treatment are recommended to control seedlings and/or regrowth. Low Volume Application (e.g. Splatter Gun and Gas Gun): Use 1:9 (10%) mixture of product:water. Apply 2x5mL dose per 0.5m Bush height. Ensure spray contacts all foliage Sprinklre Sprayer:Apply 3mL of a 10% solution to every square metre of treated area. Use of CDA equipment is not recommended.
(Eu	stflower uporatorium parium)	QLD, NSW, ACT only	-	400mL	60mL	Apply to actively growing plants with full foliage. Spray to wet all foliage. Further treatment and/or pasture improvement are recommended to restrict seedling re-establishment. Sprinklre Sprayer:Apply 3mL of a 10% solution to every square metre of treated area.

Nutgrass (Cyperus rotundus) Does not refer to other Cyperus spp. which may be known locally as Nutgrass	ALL STATES	4.8L	800mL	120mL	Apply to growing plants in late summer ie February to mid April when at least 20-25 % have reached the head stage. Apply in split application 6-8 weeks apart.
Paragrass (Brachiara mutica) Paspalum (Paspalum dilatatum)	ALL STATES	7.2L 4.8L	1L 800mL	160mL 120mL	Apply to actively growing, fully developed plants when most have reached the early head stage.
Phalaris (Phalaris aquatica)	NSW, ACT, VIC, SA only	2.4L- 4.8L	400- 800mL	60- 120mL	Apply to actively growing plants during Winter-Spring. Use the lower rate where only knockdown is required e.g. prior to burning of firebreaks. Burning can usually start 14-21 days after spraying. For long term control increase to the higher rate.
Phragmites, Common Reed (Phragmites australis)	ALL STATES	7.2L	1L	160mL	Apply to actively growing, fully developed plants approaching the early head stage. Visible symptoms of control may be slow to develop and may not be fully apparent until the next season. For application by wiper method refer to WIPER EQUIPMENT under general instructions.
Plantain (Plantago spp.)	ALL STATES	2.4L	560mL	80mL	Apply to actively growing, fully developed plants approaching the early head stage. Visible symptoms of control may be slow to develop and may not be fully apparent until the next season. For application by wiper method refer to WIPER EQUIPMENT under general instructions.

Prairie Grass (Bromus unioloides), Qld Blue Grass (Dichanthium sericeum), Red-Leg Grass (Bothriochloa ambigua), Rhodes Grass (Chloris gayana)	ALL STATES	4.8L	800mL	120mL	Apply to actively growing plants when most have reached the early head stage.
Rope Twitch (Agropyron repens)	VIC, TAS only	4.8L	800mL	120mL	Apply in late Summer-Autumn to actively growing plants with foliage at least 20cm high. To ensure maximum shoot emergence the area should NOT be cultivated in the period from the preceding Winter until the time of spraying.
Rushes (Juncus spp.)	ALL STATES	-	-	-	Apply by wiper equipment to actively growing plants. Where there is a large proportion of dead foliage, pre-slashing is
Sedge Tall, Umbrella (Carex spp. and Cyperus spp.)	NSW, ACT, VIC, TAS only	-	-	-	recommended. Allow adequate regrowth before treatment. Refer WIPER EQUIPMENT for application instructions. Control of Rushes, Tall and Umbrella Sedge is only available in dry drains and channels and dry margins of dams, lakes and streams. Please refer to PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT.
	NSW, ACT, VIC, TAS only	1.6L- 3.2L	400- 800mL	60- 120mL	Apply to actively growing plants in the flowering to post flowering period (Oct/April). Use the lower rate only if the stand has been slashed prior to treatment. Re-treatment may be necessary. Visible symptoms may not be fully apparent for up to 3 months. Use of CDA equipment is not recommended.
Silverleaf Nightshade (Solanum elaegnifolium)	NSW, ACT only	-	1.6L	240mL	Use ONLY under good soil moisture conditions. Apply to actively growing plants in the late flowering to berry stage. Repeat spraying will be necessary to restrict growth and seedling re-establishment.

Sorrel (Rumex acetosella)	ALL STATES	4.8L	800mL	120mL	Apply to actively growing plants when most have reached the early bud stage.
Soursob (Oxalis pre- caprae)	NSW, ACT, VIC, TAS, SA, WA only	1.2L	400mL	60mL	For maximum long term reduction apply from late July to early September but before natural plant yellowing (senescence) occurs. Soursob should be actively growing and not under stress of drought or waterlogging. If heavy frosting has occurred allow recovery before spraying. If heavy grazing has occurred allow recovery of foliage to at least 5cm before spraying. In Conservation Tillage (e.g. direct drilling) situations application in May-June immediately prior to sowing will give control of top growth and give partial reduction of plant numbers. Refer CONSERVATION TILLAGE USES table.
St Johns Wort (Hypericum perforatum)	ALL STATES	2.4L	400mL	60mL	Apply to actively growing plants in the flowering to late flowering procumbent stem stage (generally November-May). Re-treatment or oversowing with improved pasture species may be necessary to restrict seedling re-establishment
Sweet Briar Rose (Rosa rubiginosa)	NSW, ACT, VIC, TAS, SA, WA only	_	1.2L- 1.6L	180- 200mL	Apply to actively growing plants from late flowering to leaf fall. Spray to wet all foliage. Use the higher rate on bushes over 1.5m high. Burning (after complete brownout), pasture improvement and/or further treatment are recommended to control seedlings and/or regrowth. Low Volume Application (e.g. Splatter Gun and Gas Gun): Use 1:9 (10%) mixture of product:water. Apply 2x5mL dose per 0.5m Bush height. Ensure spray contacts all foliage
Thistle, Artichoke (Cynara cardunculus)	VIC, SA only	2.4L	400mL	60mL	Apply at the rosette - early head stage.
Thistle, Californian (Cirsium arvense)	VIC, TAS only	4.8L	800mL	120mL	Apply to actively growing plants at the flowering stage. To ensure maximum shoot emergence the area should not be cultivated prior to spraying. Re-treatment and/or pasture improvement may be necessary to restrict seedling re- establishment.

	Water Hyacinth	ALL STATES	4.8L- 7.2L	800mL- 1L	120- 160mL	Apply when plants are actively growing and at or beyond the early bloom stage of growth. Use the higher rate on dense infestations. Control of Water Hyacinth is only available in dry drains and channels and dry margins of dams, lakes and streams. Please refer to PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT.
	Water lettuce	ALL STATES	-	800mL- 1L	120- 160mL	Best results are obtained from mid-Summer through to Winter. For best results use the higher rate on dense infestations. Control of Water Lettuce is only available in dry drains and channels and dry margins of dams, lakes and streams. Please refer to PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT.
	Water Lily, Yellow	ALL STATES	4.8L	800mL	120mL	Apply when there is maximum emergence of floating leaves. Allow 2-3 weeks for symptoms to develop, then retreat any unaffected plants. Use low volume sprayer. Control of Yellow Waterlily is only available in dry drains and channels and dry margins of dams, lakes and streams. Please refer to PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT.
	Water Couch (Paspalum distichum, Paspalum paspalodes)	ALL STATES	7.2L	1L	160mL	Apply to actively growing plants in late Summer-Autumn (February-March). DO NOT treat after March because of the onset of Winter dormancy. Full results may not be visible until the following Spring. Not more than 1/4 of the weed should be submerged at the time of treatment. Control of Water Couch is only available in dry drains and channels and dry margins of dams, lakes and streams. Please refer to PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT.
	Yorkshire Fog (Holcus lanatus)	ALL STATES	2.4L	560mL	80mL	Apply to actively growing plants at the early head stage
TREE AND VINE CROPS Avocado, Banana,	Amaranth, Barley Grass, Brome Grass, Barnyard	ALL STATES	1.6L- 2.4L	400- 600mL	60- 80mL	DO NOT allow spray to drift on to crop. This product can be used as a tank mixture with Simazine SC formulations for the residual control of annual weeds. This mixture should not be used to control perennial weeds. Apply as directed or

Blueberries, Citrus fruits, Custard apples, Duboisa, Figs (dessert), Guava, Kiwifruit, Litchi, Mango, Monstera fruit, nuts (including Almond, Pecan, Macadamia, Pistachio, and Walnut); Olives, Pawpaw, Persimmons, Pome Fruit, Raspberries, Stone Fruit, Tea, Vineyards.	Grass, Caltrop, Canary Grass, Capeweed, Chickweed, Deadnettle, Doublegee, Liverseed Grass, Mintweed, Paterson's Curse, Pigweed, Ryegrass, Silvergrass, Silvergrass, Spear Thistle, Thornapple, Spiny Burrgrass, Wild Mustard, Wild Oats, Wild Turnip, Winter Grass, Variegated Thistle Couch	ALL	7.2L	1.0L	160mL	shielded spray using wiper equipment. DO NOT allow wiper surface to contact any part of the tree, vine or palm. DO NOT apply as a spray near trees or vines less than 3 years old. CITRUS FRUIT, NUTS AND OLIVES, POME FRUIT AND VINEYARDS DO NOT allow spray drift to contact green bark, or stems, laterals, suckers, fresh wounds, foliage or fruit. TEA Apply a maximum of 3.2L/ha by shielded boom or directed off-centre nozzle or 0.4L/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. Annual weeds may be sprayed anytime they are actively growing. Use the lower rate on weeds up to 15cm tall.
		STATES				

CLAIMS FOR USE

SITUATION WEEDS	
Crop or Pasture Establishment	Many annual and perennial grasses and broadleaf weeds as per
Pasture topping and renovation	Directions for Use table.
Fallow establishment	
Tussock infested pasture Rice (when direct drilling)	

Sugar cane (Ratoon spray out) Sugar cane (Saccharum officinale)	Sorghum pre and post harvest control Sugar cane (Ratoon spray out)	Sorghum (Sorghum bicolor) Sugar cane (Saccharum officinale)
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Pre-harvest application (All States)

Situation	Weeds	Controlled Boom Rate/ha	Critical Comments
PRE-HARVEST APPLICATION To reduce viable seed set of weeds in : Field Peas (Pisum sativum) Faba beans (Vicia faba)	Annual Ryegrass (Lolium rigidum)	385 – 815 mL	Use the 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 affect yields (in practice loss of in excess of 25% can occur). Apply when average seed moisture content is below 30%. For Faba Beans, this is indicated by 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 sprout growing. Glyphosate resistant biotypes have been detected in Australia. If glyphosate resistant weeds are known to be present, apply an additional method of control.
PRE-HARVEST APPLICATION: As a harvest aid and weed control: Wheat (Triticum aestivum)	Annual weeds	1.1 – 2.2L	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 sprout growing. 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:	Annual weeds	815 mL – 2.2L	Apply with boom or by air. Use higher rates where crops or weeds are dense and where faster desiccation is required.

To desiccate a crop as a harvest aid and weed control ADZUKI BEANS CHICKPEAS COWPEA FABA BEANS FILED PEAS LENTILS MUNGBEANS SOYBEAN (Application to crops intended for seed production or for sprouting may reduce germination percentage to commercially unacceptable levels).			Application should be made at or after crop maturity. Chickpeas and Lentils: apply when physiologically mature and less than 15% green pods. Soybean: apply only after seed pods have lost all green colour and 80-90% of leaves have dropped. Mungbeans/Adzuki and Cowpea: apply to mature crops when pods are brown/black. Field peas – apply when seeds turn yellow and average seed moisture content is below 30%. Faba Beans – apply when pods turn black and average seed moisture content is below 30%. 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 APPLICATION: As a harvest aid and weed control: Chickpeas (Application to crops intended for seed production or for sprouting may reduce germination percentage to commercially unacceptable levels). 	Annual weeds	600 mL – 1.3 L plus 5g Metsulfuron 600 WG 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.

GENERAL USES

USE SITUATIONS – All states (except where noted). For week	ds controlled and application rates, refer to the WEEDS CONTROLLED tables
NON-AGRICULTURAL AREA Around buildings, Commercial	For residual control, TITAN Glyphosate 450 Herbicide may be tank mixed
and Industrial areas, Domestic and public service areas and	with certain herbicides. Refer to Compatibility section.
Rights of ways	

AGRICULTURAL AREAS	TITAN Glyphosate 450 Herbicide may be used for control of annual and
	perennial 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 Dry margins of dams, lakes	Do not apply to weeds growing in or over water. Do not spray across open
and streams situations	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.
FORESTRY	TITAN Glyphosate 450 Herbicide may be used in the following situations:
	prior to establishment of nurseries
	for site preparation prior to planting
	□ amongst established trees using a directed or shielded sprayer Do not
	allow spray or spray drift to come into contact with foliage or green bark or
	stems of desirable trees, as severe damage may occur
TREE AND VINE CROPS Avocado, Banana, Blueberries,	Apply as directed or shielded spray only. Do not apply as a spray near trees
Citrus Fruit, Custard Apples, Dubosia, Figs –dessert, Guava,	or vines less than 3 years old, unless they are effectively shielded from
Litchi, Mango, Monstera Fruit, Nuts (Almond, Macadamia,	spray or spray drift. Citrus fruits, Nuts, Olives and Pome fruit. Do not allow
Pecan, Pistachio and Walnut), Olives, Persimmons, Pome	spray or spray drift to contact foliage, green bark or stems, canes laterals,
Fruit, Raspberries, Stone Fruit, Vineyards	suckers, flesh wounds or fruit. All other crops. Do not allow spray or spray
	drift to contact any part of the plant including the bark.
PASTURE	DIRECTED (SPOT) APPLICATION: TITAN Glyphosate 450 Herbicide is
	non-selective and may damage or kill any plant in the sprayed area. Re-
	treatment and/or pasture improvement may be required to restrict weed
	seedling re-establishment. BOOM APPLICATION: TITAN Glyphosate 450
	Herbicide may be used to suppress or kill existing pasture species prior to
	reseeding or planting other crops. Where directed (spot) spray has been
	applied, grazing stock need not be removed.

ANNUAL WEEDS – NON-CULTIVATED OPTIONS				
WEEDS CONTROLLED (ALL STATES)		RATE	CRITICAL COMMENTS (Read	
			application check list before using)	
Amaranth	Amaranthus spp.	Boom 1.6–2.4L/Ha	Annual weeds may be sprayed any	
Annual Ryegrass	Lolium riridum		time they are actively growing.	
Barley Grass				

Demovered Croce		Llandaun 400 coord rag	Lies the lower rate or was do up to
Barnyard Grass	Horedeum leporinum	Handgun 400-600mL per	Use the lower rate on weeds up to
Brome Grass	Echinochloa crus-galli	100L	15cm tall. Increase to the higher rate
Caltrop	Bromus spp.		for weeds over 15cm tall.
Canary Grass (Annual	Tribulus terrestris	Knapsack 60-80mL per 15L	
Phalaris) Capeweed	Phalaris spp.		Visible symptoms develop in 3-7 days,
Cereals	Arctoteca calendula	Refer to Application Section	but complete desiccation may take 20-
	(Volunteer barley, oats, sorghum,		30 days under cool conditions.
Chickweed	wheat)		
Cobblers Pegs	Stellaria media		TITAN Glyphosate 450 Herbicide does
Deadnettle	Bidens pilosa		not provide residual weed control.
Furnitory	Lamium amplexicaule		Repeat treatments may be required to
	Fumaria officinalis F.muralis		control later germinating weeds.
Ground cherry			
Lesser Swinecress	Physalis ixiocarpa		For residual control, TITAN Glyphosate
Liverseed grass	Coronopus didymus		450 Herbicide may be tank mixed with
Milkthistle (Sowthistle)	Urochloa panicoides		certain herbicides. Refer to
Mintweed	Sonchus oleraceus		Compatibility section.
Paradoxa Grass	Salvia reflexa		
Paterson's Curse	Phalaris paradoxa		When applying in high volume (i.e.
Pigweed	Echium plantagineum		Handgun or Knapsack), add a non-
Potato Weed	Portulaca oleracea		ionic wetter (1000g/L) at 200mL per
Saffron Thistle	Galinsoga parviflora		100L of spray mix
Silver Grass	Carthamus lanatus		
Spear Thistle	Vulpis spp.		
Spiny Burr Grass	Cirsium vulgare		
Spiny Emex (Doublegee)	Cenchrus spp.		
Spurge	Emex australis		
Sub-Clover	Euphorbia spp.		
Thornapple	Trifolium Subterraneum		
Wild Mustard	Datura spp.		
	Sisymbrium officinale		
Wild Oats			
Wild Turnip	Avena spp.		
Winter Grass	Brassica tournefortii		
	Poa annua		
Variegated Thistle	rua allilua		

Silybum marianum	

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