

## PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

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

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Do not contaminate dams, rivers, waterways 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.

#### PROTECTION OF LIVESTOCK

There is no withholding period for grazing stock, but to give the product a chance to be efficiently absorbed by sprayed vegetation, it is recommended that livestock be kept clear of treated annual weeds for one day after spraying, and for perennial weeds 7 days. For certain plants known to be toxic to stock, it is advisable to keep livestock away until complete browning occurs.

#### STORAGE AND DISPOSAL

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For refillable containers (1000L): Empty containers fully into application equipment. Close all valves and return to point of supply for refill or storage.

#### SAFETY DIRECTIONS

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#### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Australia. (Phone Australia: 13 11 26)

#### MATERIAL SAFETY DATA SHEET

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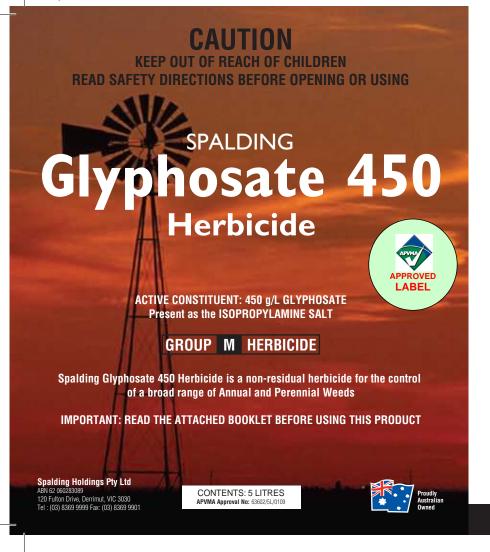
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In an Emergency Dial 000 Police or Fire Brigade



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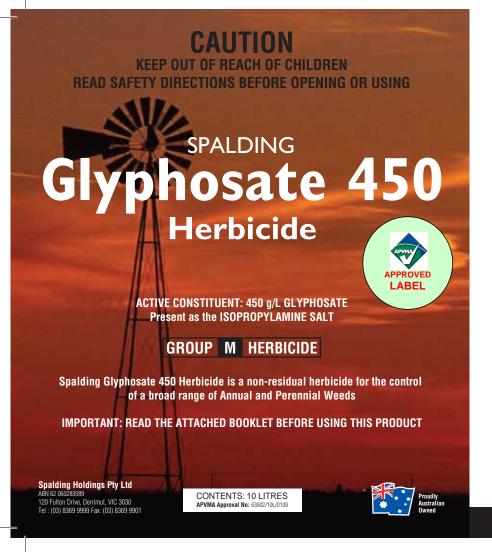
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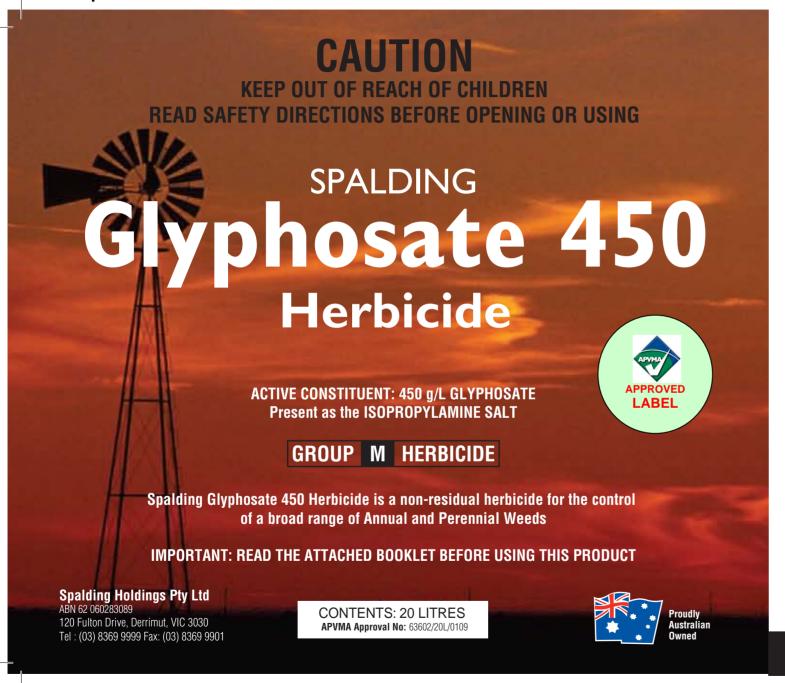
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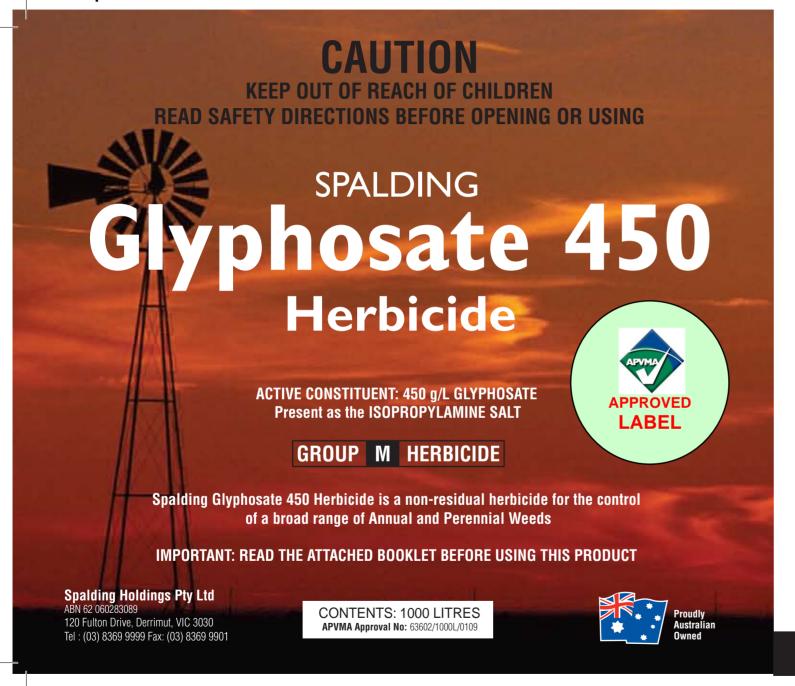
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DIRECTIONS FOR USE
RESTRAINTS

DO NOT disturb treated weeds by cultivation, sowing or grazing for 1 day after treatment of annual weeds and 7 days for perennial weeds.

DO NOT treat weeds under poor growing conditions or dormant conditions as occur in drought, waterlogging, disease, insect damage or following frost. Reduced control may also occur when treating weeds heavily covered with dust or silt. Rainfall occurring up to 6 hours after application may reduce effectiveness. Heavy rainfall within 2 hours of application may wash the chemical off the foliage and a repeat treatment may be required.

## Annual Weed Control - All States

Weeds Controlled	Rate	Critical comments
Amaranth (Amaranthus spp.) Barley grass (Hordeum leporinum) Barnyard grass (Hordeum leporinum) Barnyard grass (Horlochloa spp.) Brome grass (Bromus spp.) Caltrop (Tribulus terrestris) Canary grass (Phalaris spp.) Capeweed (Arcotheca calendula) Cereals (Volunteer) Chickweed (Stellaria media) Cobblers Peg (Bidens pilosa) Deadnettle (Lamium amplexicaule) Double Gee (Ernex australis) Furnitory (Furnaria officinalis) Ground Cherry (Physalis angulata) Liverseed grass (Urochloa panicoides) Mintweed (Salvia reflexa) Paradoxa grass (Phalaris paradoxa) Paterson's Curse (Echium plantagineum)	Rate  Boom:  1.6 – 2.4 L/ha  Handgun: 400 – 560mL per 100L of water  Knapsack: 60 – 80mL per 15L of water	All weeds Spray actively growing plants. The taller the weed the higher the rate. As a guide, use the higher rate when weeds are higher than 15cm.  If residual activity is required, see section titled "Compatibility". To use a residual herbicide, use the herbicides that have been recommended as being compatible in accordance with their label.
Pigweed (Portulaca oleracea) Potato weed (Galinsoga parvitlora) Rye grass Annual (Lolium rigidum) Saffron Thistle (Carthamus lanatus) Silver grass (Vulpia spp.) Sow Thistle (Sonchus oleraceus) Spear Thistle (Cirsium vulgare) Spiny Burgrass (Cenchrus spp.) Spurge (Euphorbia spp.) Sub Clover (Trilolium subterraneum) Thomapple (Datura spp.) Wild Mustard (Sisymbrium officinale) Wild Oats (Avena spp.) Wild Tumip (Brassicia tournefortii) Winter grass (Poa annua) Variegated Thistle (Silybum marianum)		Use Spalding Glyphosate 450 Herbicide at rates indicated in the adjacent column.

## **Perennial Weed Control**

Weeds		Rate			Critical
Controlled	State	Boom L/ha	Knapsack mL/15L	Handgun vol/100L	Comments
Bent grass (Agrostis tenuis)	Vic, Tas only	2	60	400mL	Apply to actively growing plants in late spring when they have some seed head development but before summer drought stress. Bent grass should NOT be grazed heavily at spraying. Follow-up management is required to limit seedling re-establishment. Full disturbance with tyned implement should follow 10-21 days after spraying. Application of this product should be followed by a summer crop and/ or by re-seeding pasture or crop the following autumn.
Blady grass (Imperata cylindrica)	Qld, NSW only	7.2	160	1L	Spray at head stage while plants are in active growth stage.
Carpet grass (Axonopus spp)	All states	2.4	60	400mL	Spray at early head stage while in active growth stage.
Cocksfoot (Dactylis glomerata)	All states	2.4	80	560mL	Spray at early head stage while in active growth stage.
Couch (Cynodon dactylon)	All states	7.2	160	1L	Spray at early head stage (late Spring).
Cumbungi (Typha spp.)	All states	7.2	160	1L	Spray during Summer or Autumn period during the heading stage. Except for Tasmania, Wiper equipment can be used. Refer to information on "Application Equipment section of the label. DO NOT apply to weeds growing in or over water. DO NOT spray across bodies of water and DO NOT allow spray to enter the water. DO NOT allow water to return to dry channels or drains within 4 days of application.
Flatweed (Cat's Ear) (Hypochaeris radicata)	All states	2.4	80	560mL	Spray at early flowering to fully developed rosettes.

			Rate		
Weeds Controlled	State	Boom L/ha	Knap- sack mL/15L	Handgun vol/100L	Critical Comments
Glyceria (Glyceria maxima)	Tas only	4.8	120	800mL	Spray at fully headed stage in late Summer/Autumn Add surfactant at recommended rate. DO NOT apply to weeds growing in or over water. DO NOT spray across bodies of water and DO NOT allow spray to enter the water. DO NOT allow water to return to dry channels or drains within 4 days of within 4 days of drains within 4 days of drains.
Guinea grass (Panicum maximum)	All states	7.2	160	1L	Spray at early head stage. Refer to 'Application Equipment' section of the label: sub-heading 'Wiper Equipment' as it can also he used.
Hoary Cress (Cardaria draba)	Vic, NSW only	1.2	60	400mL	Spray at late rosette to flowering stage, late July to September. At this time of year ensure frosts, waterlogging or possibly drought stress are not a restraint as plants need to be in active growth stage. Refer to Wiper Equipment' section of this booklet, if this use technique can be applied to this situation.
Johnson grass (Sorghum halepense)	All states	4.8	120	800mL	Spray at early head stage when plants are actively growing or refer to Wiper Equipment' section of this booklet, if that application tending is to be used on Johnson grass.
Kangaroo grass (Themeda australis)	All states	4.8	120	800mL	Spray at early head stage when plants are actively growing.
Kikuyu grass (Pennisetum clandestinum)	All states	4.8	120	800mL	Spray at early head stage when plants are actively growing.
Nutgrass (Cyperus rotundus)	All states	4.8	120	800mL	Non-cultivated situations.
(Cyperus rotundus)	states	followed by 2.4	followed by 80	followed by 560mL	If spraying is to be done on crop growing land, apply first spray in February, which is about the time that 20-25% of plants have reached heading stage. Then a second application is necessary about 2 months later, which gives adequate time for full emergence to occur. Because underground runners are broken up by cultivation, individual nuts may spring up and repeat treatments may be needed to obtain a total control situation. On land that is primarily grazing or urban, spray in February/April period, so long as correct growing conditions are present. Again ensure that 20-25% of plants have reached the head stage.
Paragrass (Brachiara mutica)	All states	7.2	160	1L	Spray at early head stage when plants are in active growth. DO NOT apply to weeds growing in or over water. DO NOT spray across bodies of water and DO NOT allow spray to enter the water. DO NOT allow water to return to dry channels or drains within 4 days of application.
Paspalum (Paspalum dilatatum)	All states	4.8	120	800mL	Spray at early head stage when plants are in active growth.
Phalaris (Phalaris aquatica)	SA, Vic, NSW only	2.4- 4.8	60 – 120	400mL to 1L	For medium to longer-term control, use the high rates while plants are in active growth phase during Winter/ Spring. The lower rates may be used in conjunction with burning (fire breaks). This will give a brown out and better burning conditions. Leave for 2-3 weeks after spraying before burning.
Phragmites Common Reed ( <i>Phragmites</i> <i>australis</i> )	All states	7.2	160	1L	If the Wiper technique is to be used, refer to be used, refer to Wiper Equipment' section of this booklet. Spray when plants are getting close to early head stage and actively growing. Spray symptoms may not be observed for a season or more. DO NOT apply to weeds growing in or over walter. DO NOT apply to other the water. DO NOT allow spray to enter the water. DO NOT allow water to return to dry channels or drains within 4 days of application.

Weeds			Rate		Critical
Controlled	State	Boom L/ha	Knap- sack mL/15L	Handgun vol/100L	Comments
Plantains (Plantago spp)	All states	2.4	80	560mL	Spray when plants have reached the early head stage. Bear in mind that Plantains are slow to develop toxicity symptoms.
Prairie grass (Bromus unioloides)	All states	4.8	120	800mL	Spray at early head stage while plants are in active growth phase.
Qld Blue grass (Dichanthium sericium)	All states	4.8	120	800mL	Spray at early head stage while plants are in active growth phase.
Redleg grass (Bothriochloa macra)	All states	4.8	120	800mL	Spray at early head stage while plants are in active growth phase.
Rhodes grass (Chloris gayana)	All states	4.8	120	800mL	Spray at early head stage while plants are in active growth phase.
Rope Twitch (Agropyron repens)	Tas, Vic only	4.8	120	800mL	Leave ground in a dormant state for a months prior to spraying in late Summer/Autumn, so that the foliage to uptake the product is fully available (at least 20cm in height). Ensure drought stress conditions do not exist at time of spraying.
Rushes (Juncus spp)	All states	See Critica	Il Comments		Use Wiper technique ensuring a high percentage of green matter is present. Refer to section of this booklet entitled Wiper Equipment for directions for use. DO NOT appropriate or over water. DO NOT spray across bodies of water and DO NOT allow spray to enter the water. DO NOT allow water to return to dry channels or drains within 4 days of application.
Sedge — Tall (Cyperus gracilis)	NSW, Tas, Vic only	See Critica	Il Comments	Use Wiper technique ensuring a high percentage of green matter is present. Refer to section of this booklet entitled Wiper Equipment for directions for use. DO NOT apply to weeds growing in or over water. DO NOT spray across bodies of water and DO NOT allow spray to enter the water. DO NOT allow water to return to dry channels or drains within 4 days of application.	
Silverleaf Nightshade ( <i>Solanum</i> <i>elaegnifolium</i> )	NSW only	-	240	1.6L	Spray actively growing plants when good soil moisture is present. Spray when plants are in the late flowering to berry stage. Follow up sprays will be required to maximise control.
Sorrel (Rumex acetosella)	All states	4.8	120	800mL	Spray at bud stage so long as plants are in an active growth phase. See also 'Conservation Tillage' section of this booklet.
Soursob (Oxalis pes-caprae)	NSW, Vic, SA, WA, Tas only	1.2	60	400mL	Best results can be obtained by late Winter/early Spring sprays. Ensure foliage is in a healthy, actively growing stage at time of spraying. See also 'Conservation Tillage' section of this booklet.
St John's Wort (Hypericum perforatum)	All states	2.4	60	400mL	Spray at the flowering to post-flowering stage in Summer/Autumn period. As spraying is only part of the total management concept of pasture improvement, follow-up sprays may be needed.
Thistle Artichoke ( <i>Cynara</i> <i>cardunculus</i> )	Vic, SA only	2.4	60	400mL	Spray when plants have reached rosette/early- heading stage. Plants should be free of soil deposits, particularly when spraying along roadsides.
Thistle Californian (Cirsium arvense)	Vic, Tas only	4.8	120	800mL	Spray at the flowering stage, As spraying is only part of the total management concept of pasture improvement, follow-up sprays may be needed.
Water Couch (Paspalum distichum)	All states	2.4	80	560mL	Spray actively growing plants in February/March period. DO NOT apply to weeds growing in or over water. DO NOT spray across bodies of water and DO NOT allow spray to enter the water. DO NOT allow water to return to dry channels or drains within 4 days of application.
Yorkshire Fog (Holcus lanatus)	All states	2.4	80	560mL	Spray when plants have reached the early heading stage and are in an active growth phase.

- CONSERVATION TILLAGE SITUATIONS
  Includes directions for use for:

  Land Preparation Prior to Sowing (Winter crops, Summer crops, fallow)
- Pasture Renovation
  Pasture Topping
  Pasture Manipulation
- Rice (Direct Drilling)
   Sugarcane (Ratoon control)

	State	Weeds Controlled	Rate Vol/ha	Critical Comments
SOUTHERN AUSTRALIA  Where weed control is desired prior	NSW, SA, WA, Vic only	Amsinkia (Amsinkia spp.)	<12cm diameter 800mL -1L >12cm diameter 1 – 1.25L	ALL WEEDS Spray when weeds are actively growing. Ensure regrowth is 6-8cm in height if intense grazing occurred
desired prior to sowing a pasture or crop and prior to disturbing the area with cultivation or tyned implements at sowing		Annual phalaris (Phalaris paradoxa) Annual Ryegrass (Lolium rigidum)	800 – 1.0L pre tillering 1.0L – 1.25L post tillering	prior to spray time. Use higher rate if intensive grazing occurred prior to spraying OR if spraying is being carried out late in the season OR cold/overcast conditions are present at the time of spraying.
		Barley grass (Hordeum leporinum) Brome Grass (Bromus spp.)	400 – 800mL pre tillering 800mL – 1.2L post tillering	CULTIVATION OR SOWING This may start 1 - 21 days after spraying. If Dock, Phalaris, Skeleton weed, Soursob or Sorrel are prese do not cultivate or sow for a
		Capeweed (Arctotheca calendula)	<8cm diameter 400 - 800mL >8cm diameter 800mL - 1L	least 7 days after spraying. Product will normally only give knockdown reduction i plant numbers and seasona suppression of these weeds if cultivation does not occur within 21 days re-treatment may be necessary.
		Cereals (Volunteer)	400 - 800mL pre tillering 800mL - 1L post tillering	TANK MIXTURES Refer to section entitled 'Compatibility' of this bookl if it is planned to spray in conjunction with a herbicid for residual control, improv
		Dock Seedlings (Rumex obtusifolius)	800mL – 1.2L	performance, or if you wish to use an insecticide. Read the label carefully for conditions of use.
		Doublegee (Emex australis)	<8cm diameter 400 - 800mL >8cm diameter 800mL - 1L	
		Fumitory (Fumaria officinals)	<12cm diameter 800mL -1L >12cm	
		(volunteer) (Lupins albus)	diameter 1 – 1.2L	
		Curse/ Salvation Jane (Echium plantagineum)		
		Perennial Phalaris (Phalaris aquatica)	1.2L	
		Saffron Thistle (Carthamus lanatus)	<12cm diameter 800mL -1.2L <12cm	
		Scotch Thistle (Onopordum acanthium)	diameter 800ml – 1L	
SOUTHERN AUSTRALIA Where weed control is desired prior	NSW, SA, WA, Vic only	Silver Grass (Vulpia spp.)	800mL – 1L pre tillering 1 – 1.25L post tillering	
to sowing a pasture or crop and prior to disturbing the area with		Skeleton weed (Chrondrilla juncea) Sorrel	1.2L	Skeleton Weeds: Spray only rosettes that have fully emerged (NSW only)
cultivation or tyned implements at sowing		(Rumex acetosella) Spear Thistle	<12cm	ALL WEEDS -
		(Čirium vulgare)	diameter 800mL -1L >12cm diameter 1 – 1.2L	SUCCESFUL CROP ESTABLISHMENT Early sprays to control young weeds will lead to establishing an ideal seed bed. If weed growth is heav
		Soursob (Oxalis pes- caprae) Sub Clover (Trifolium	1.2L	sowing should be delayed until matter has decayed as the emerging crop shoots may be smothered and set back. Light cultivation to leave decaying matter on th
		variegated Thistle (Silybum marianun)	<12cm diameter 800mL -1L >12cm diameter 1 – 1.2L	surfacer may help. If using residual type pre-emergent herbicides, seek out label directions that advise of risks associated with crop emergence.
	Tas only	Annual weeds	1.2L	Surfactant is recommended to be added. Where White clover, Sorrel and Dock, are present, add 1L/ha of dicam
		Perennial weeds	2.4L	(200g/L) in accordance with recommendations on the dicamba label.
SOUTHERN AUSTRALIA Where weed control is desired prior	NSW, SA, WA, Vic only	Annual Ryegrass (Lolium rigidum)	1.2 – 1.6L	ALL WEEDS Spray when weeds are actively growing. Ensure regrowth is 6-8cm in heigh if intense grazing occurred prior to spraying. Add wetti
to sowing a SUMMER CROP or prior to the		Barley Grass (Hordeum leporinum)	800mL – 1.2L	agent to spraying. Add well agent to spray solutions at the recommended rate if Ryegrass is present. Use higher rates under the
preparation of a fallow		Brome Grass (Bromus spp.)  Capeweed	1.2 – 1.6L	following conditions. Grasses - full tillering Broadleaf Weeds — stem elongation or budding. Lower rates should be used on younger stages of the
		(Arctotheca calendula)  Cereals (Volunteer)	800mL – 1.2L	weeds or where cultivation to follow within 3 weeks.
		(Volunteer)  Hoary cress (Cardaria draba)	1.2L	TANK MIXTURES  Refer to section entitled  'Compatibility' in this book if it is planned to spray in conjunction with a residual
		urabay		herbicide. Read the label carefully for conditions of use.

Situation	State	Weeds	Rate	Critical
SOUTHERN	NSW,	Paterson's	<b>Vol/ha</b> 1.2 – 1.6L	Comments ALL WEEDS
Where weed control is desired prior to sowing a	SA, WA, Vic only	Curse/ Salvation Jane (Echium plantagineum) Saffron		Spray when weeds are actively growing. Ensure regrowth is 6-8cm in height if intense grazing occurred prior to spraying. Add wetting agent to spray solutions at
SUMMER CROP or prior to the preparation of a fallow		Thistle (Carthamus lanatus)  Scotch Thistle		the recommended rate if Ryegrass is present. Use higher rates under the following conditions. Grasses - full tillering
		(Onopordum acanthium) Silver Grass		Broadleaf Weeds – stem elongation or budding. Lower rates should be used on younger stages of the
		(Vulpia spp.) Spear Thistle (Cirium		weeds or where cultivation is to follow within 3 weeks.  TANK MIXTURES
		vulgare) Soursob (Oxalis pes-	1.2L	Refer to section entitled 'Compatibility' in this booklet if it is planned to spray in conjunction with a residual herbicide. Read the label
		caprae)	400mL – 800ml	carefully for conditions of use.  HOARY CRESS
		Mustard (Sisymbrium officinale) Wild Oats	800mL -	Spray from late rosette to early flowering stage.  SOURSOB
		(Avena spp.) Wild Radish	1.2L 1.2 – 1.6L	Spray at tuber exhaustion.
		(Rhapanus raphanistrum) Wild Turnip (Brassica		
NORTHERN AUSTRALIA	NSW, Qld	tournefortii)  Amaranth (Amaranthus	800mL – 1.2L	
Where weed control is desired prior	only	macrcarpus  Annual Ground		After elongation or budding, use the higher rate.
to sowing a SUMMER CROP or WINTER		Cherry (Physalis angulata)	400 1	
CROP or in FALLOW situations		Annual phalaris (Phalaris paradoxa)	400mL – 800mL	ALL WEEDS Spray when weeds are actively growing. Ensure regrowth is 6-8cm in height if intense grazing occurred
	Qld	Australian Bluebell (Wahlanbergia gracilis)	800mL – 1.2L	prior to spray time. DO NOT Spray weeds under stress from low moisture, frost, cold,
	NSW, Qld only	Barley Grass (Hordeum leporinum)	400 – 800mL	disease or waterlogging. Note that Barnyard Grass and Liverseed Grass are particularly prone to moisture stress.
		Barnyard grass (Echinochloa spp.)	800mL – 1.2L	RATE SELECTION Use lower rate on young weeds. Increase to higher
		Caltrop (Tribulis terrestris)		rates as grasses gain full tillering or as broadleaf weeds gain elongation/ budding. At more advanced stages, some broadleaf
		Cereals (volunteer)	400 – 800mL 800mL –	weeds need a higher rate range or addition of 2,4-D.
		(Gnaphalium spp.) Fumitory	1.2L	TANK MIXTURES Read label directions, plantback and withholding periods and safety directions.
		(Fumaria officinalis)		See section entitled 'Compatibility' in this booklet.  CROP ESTABLISHMENT
		(Eragostis curvula) Mexican Poppy		Sowing should not proceed until conditions allow the formation of a satisfactory seed bed.
		(Argemone ochroleuca)		ALL WEEDS -AERIAL APPLICATION See section entitled 'For
		(Salvia reflexa) New Zealand		Aerial Equipment' in this booklet for instructions for use in high temperatures and dry conditions. DO NOT
		Spinach (Teratogonia tetragonoides) Noogoora		apply this product when the temperature exceeds 30oC.
		Burr (Xanthium pungens) Saffron		
		Thistle (Carthamus lanatus)		
		Sow Thistle (Sonchus oleraceaus)		After stem elongation or budding, use the higher rate.
		(volunteer) Spear Thistle		
		(Cirium vulgare) Spurge		
		(Euphorbia spp.) Sunflower (volunteer)		
		(Helianthus annuus) Turnip		After stem elongation or
		Weed (Rapistrum rugosum) Variegated		budding, use the higher rate.
		Thistle (Silybum marianun)		After the control of
		Wild Lettuce (Lactuca serriola)		After stem elongation or budding, use the higher rate.
		Wild Oats (Avena spp.)	400mL – 1.2L	After clam all a series
ND. D-f	on ****	Wild Turnip (Brassica tournefortii)	800mL – 1.2L	After stem elongation or budding, use the higher rate.
NB: Refer to section to be used. DO NO				booklet if aerial application is

Situation	State	Application Rates	Critical Comments
A high predominance of Poa tussock (Poa labilitardieri) associated with annual weed situations	Old, NSW, Vic, Tas only	2.4 – 3.2 L/ha	TIMING: Graze heavily, then remove stock at least 2 weeks before spraying to allow new growth. Apply to actively growing plants after the autumn break but before heavy forst (March — May).  APPLICATION: Increase to the high rate levels may give more effective reductions. It using aerial Equipment, refer to relevant section of this booklet.  FOLLOW-UP MANAGEMENT:  Sowing may start from 2 weeks after praying it is essential that correct follow-up pasture establishment and management occurs after treatment. Spot treatment will limit re-infestation.
A high predominance of bent grass (Agrostis tenuis) associated with annual weed situations	Vic, Tas only	2 L/ħa	This rate will give control/ suppression prior to planting improved pasture or crops. Spray in late spring when weeds are in active growth phase and have a degree of seed head development. Henrove stock to ensure full leaf growth. 2 a weeks after spraying use a lyned implement to disturb the soil and break up vegetative matter. Follow-up by planting a summer crop and/or re-seedling pasture or crop next autumn.

Pas	ture	Top	pinç

Pasture Topping						
Situation	State	Weeds Controlled	Application Rates	Critical Comments		
Pasture toping to reduce seed set of Annual	NSW, Vic, SA, WA	Annual ryegrass (Lolium rigidum)	360 mL/ha	Apply at flowering stage and prior to plants 'haying off'.		
grasses ad Capeweed (Arctotheca calendua)	only	Barley grass (Hordeum leporinum)	240 - 360 mL/ha	Apply at the head to milky dough stage.		
		Brome grass (Bromus spp.)				
		Capeweed (Arctotheca calendula)		Apply at flowering stage and prior to plants 'haying off'.		
		Silver grass (Vulpia		Apply at the head to milky dough stage.		
		<i>spp.)</i>		ALL WEEDS: Ensure even regrowth by removing all stock prior to treatment. If pasture legumes are present their populations may be reduced. DO NOT apply if clover or medic crops intended for seed are present. Water volumes of 50L/ha or less are preferable. If excess of this is required, add wetting agent at label rates.		

### Pasture Manipulation

Situation	State	Weeds Controlled	Application Rates	Critical Comments
Where certain pasture species	NSW, Vic, WA only	Carpet grass (Xonopus spp)	1.1 – 4.8 L/ha	Use higher rates for control. Use lower rates for suppression.
need to be controlled or suppressed prior to		Kikuyu grass (Pennisetum clandestinum)		
the drilling of forage species or		Paspalum (Paspalum dilatatum)		
soybeans	Qld only	Carpet grass (Xonopus spp)		
		Kikuyu grass (Pennisetum clandestinum)	500mL – 4.8 L/ha	
		Paspalum (Paspalum dilatatum)	1.1 – 4.8 L/ha	

## Rice (Direct drilling)

Situation	State	Weeds Controlled	Application Rates	Critical Comments	
Sites where direct drilling of rice is to be carried out and site	NSW only	Annual phalaris (Canary grass) (Phalaris spp)	800mL – 1.0L/ha	ALL WEEDS: Site preparation should ensure that if grazing has taken place regrowth should be 6-8cm tall before spraying If drought conditions a	
sprayed prior to direct drilling		Annual ryegrass (Lolium rigidum)		present, a pre-watering prior to spraying is recommended. If Ryegrass is present, use a wetting agent at recommended	
		Barley grass (Hordeum leporinum)		rates.  WHEN TO SOW: Direct	
		Burr medic (Medicago spp)		drilling can be carried out 1 day to 2 weeks afte spraying. If a residual	
		Sub-clover (Trifolium subterraneum)		herbicide is to be used, refer to products label instructions on mixtures and rice application.	
		Winter grass (Poa annua)			

Sugarcane (Ratoon control)					
Situation	State	Variety	Application Rates	Critical Comments	
Sites where control of Ratoon cane is required	Qld only	Q63, Q87, Q90, Q102, Q117, Q120, Q129, Q130, H56-752, Pindar, Triton	2.4 – 3.2 L/ha	ALL VARIETIES: Spray only if ratoons are in active phase and are 60 – 120 cm in height. DO NOT apply if plants are drought stressed or suffering effects of waterlogging. Ensure boom is at a height above the ratoon canopy that allows the correct overlap if the spray pattern. Use the higher rates for suppression if it is	
		Q86, Q96, Q113	3.2 – 4.0 L/ha		
		Q115, Q122, Q94, Cassius	4.0 – 4.8 L/ha		
		NCQ310, Q107	4.8 - 7.2 L/ha	planned to follow up with cultivation.	

## Vine and Tree Crops

Situation	State	Weeds Controlled	Rate Vol/ ha	Critical Comments
Nuts (including Almond, Pecan, Macadamia, Pistachio and Walnut), Pome fruit, Litchi, Stone fruit, Vineyards and Citrus fruit	All states	See specific weed tables in this booklet	See specific weed tables in this booklet for application rates	ALL TREES AND VINES: DO NOT spray near frees or vines less than 3 years old. DO NOT allow Wiper contact. AVOCADO, BANANA, GUAVA KIWIFRUIT, LITCHI, MANGO, PAW PAW AND STONE FRUIT: Spray drift can cause
Avocado, Guva, Kiwifruit, Mango and Paw Paw	Qld, NSW only			damage, if allowed to contact any part of the vine, palm, trunk or tree. Be careful to avoid contact witt split bark on Kiwifruit and green stems on Paw Paw.
Bananas	Qld, NSW, WA only			Citrus, Olive, Pome fruit, Nuts and Vineyards do not allow spray to contact any part of the plant.

#### General Uses

Situation	State	Weeds Controlled	Application Rates	Critical Comments
Dry drains and channels, dry margins of dams, lakes and streams	All states	For Weeds Controlled refer to list of species under ANNUAL: WEED CONTROL and PERRNINIAL WEED CONTROL in this booklet  For Application rates refer to rates shown under ANNUAL: WEED CONTROL and PERRNINIAL WEED CONTROL in this booklet	Application rates refer to rates shown under ANNUAL: WEED CONTROL and PERENNIAL WEED CONTROL in this booklet Showled and Do Normali and the showled and drains within 4 day application.  Use Situations include; Prior to nursery establishment Site preparation prior planting In established tree are using shielded or direct sprays or selective wiper equipment Do NoT allow spray or spray drift to come int contact with foliage or go bark of desirable trees as severe damage may occ Do NoT allow wiper surface to come into cor	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 water. DO NOT allow water to return to dry channels and drains within 4 days of application.
Forestry				Prior to nursery establishment     Site preparation prior to planting     In established tree areas using shielded or directed sprays or selective wiper equipment     Do NOT allow spray or spray drift to come into contact with foliage or green bark of desirable trees as severe damage may occur
Rights-of- way, domestic and public service areas, commercial and industrial areas and around buildings.				This product does not provide residual control.

Woods Application Critical

#### Onions

Situation	State	Weeds Controlled	Application Rates	Critical Comments
Post- planting or pre- emergent application.	Tas only	For Weeds Controlled refer to list of species under ANNUAL: WEED CONTROL and PERENNIAL WEED CONTROL in this booklet	800mL/ha- 2.4L/ha	Ensure that spraying is carried out well in advance of emergence of onion shoots (7 days). Otherwise severe phytotoxicity will occur il onion plant comes into contact with herbicide. Take into consideration height and type of weeds present in determining the exact rate. For small annual weeds use lower rate levels and for larger annual weeds (as a guide greater than 15cm in height) and where perennial weeds are present, use the higher rates.

#### Pasture Situation:

Situation	State	Weeds Controlled	Application Rates	Critical Comments
Where Boom applications are used in pasture control prior to re-seeding of improved pasture.	All states	For Weeds Controlled refer to list of species under ANNUAL: WEED CONTROL and PERENNIAL WEED CONTROL in this booklet	For Application rates refer to rates shown under ANNUAL: WEED CONTROL and PERENNIAL WEED CONTROL in this booklet	See section Protection of Livestock, Wiper Equipment and Conservation Tillage' in this booklet.

## Row Crops (Cotton, Peanuts, Soybeans, Sugarcane

Situation	State	Weeds Controlled	Application Rates	Critical Comments
Where Wiper equipment is used to control weeds in row crops.	Qid, NSW only	For Weeds Controlled refer to list of species under ANNUAL: WEED CONTROL and PERENNIAL WEED CONTROL in this booklet	800mL in 2L water	See section entitled 'For Wiper Equipment' in this booklet. Apply to weeds growing 15cm above the crop canopy or weeds growing between rows. D0 NOT allow the product to come into direct contact with crops or solution to drip onto crops.

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

## WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED

## **GENERAL INSTRUCTIONS**

**Product Description**Spalding Glyphosate 450 Herbicide is translocated throughout the plant where it kills both foliage and roots. Ideally the best time to use the product is when target species are in a state of active growth, moderate climatic conditions are present and plants are free of

disease and dirt cover. While cool and cloudy conditions can sometimes delay the appearance of chemica activity, it can generally be expected that symptoms of chemical effect will appear 2-7 days after spraying of annual species and 2-3 weeks after spraying perennial species. The symptoms are demonstrated by a vellowing and accompanying wilting, progressing

Safety to Crops
Do not allow the product to come into contact with the foliage, fruit or green stems of desirable crops, plants or trees, as the nature of the chemical is non-selective. Some

- useful guidelines that can help in this regard are:

  1. Don't use if the wind is blowing towards desirable plants in close proximity

  2. Avoid fine droplet settings (150 micron or less) when calibrating
- Avoid spraying in winds greater than 8km/hr, still air and hot days
  While the product is rapidly inactivated on contact with the soil it is important certain
- factors are kept in mind: 1. Where there is a light presence of unwanted vegetative matter sowing can commence
- from one day after spraying. 2. Where the plant cover is heavy it is better to allow vegetative matter to decay prior to
- sowing as crop establishment may be retarded.

## **Spray Preparation**

Make sure the spray tank is clean and residues from previous usage have been

- 2. Half fill the spray tank with clean water, bearing in mind that less than perfect results may occur if water containing soil particles is used or hard water containing calcium salt. Glyphosate may be inactivated by water, which is contaminated with clay particles or soil.
- 3. Add the required amount of Spalding Glyphosate 450 Herbicide as per the Direction for Use table
- Mix well keeping filling hose below surface to avoid foaming. 5. Add water to fill vat.
- 6. Remove hose from tank as soon as full to prevent back siphoning NB: Do not use mechanical agitators, as they cause excessive foaming. Do not add

non-approved herbicides and insecticides.

NBB: Use only plastic or plastic lined, stainless steel, aluminium, copper, brass or fibrenlass tanks. Galvanised steel or unlined steel spray tanks can react with the product to hydrogen gas, which can form a combustible gas mixture, which can be flashed by ignition sources.

The addition of surfactant may improve weed control where water rates are high or product rates low. Suggested surfactant rates are 200ml /100L of 1000m/L non-ionic surfactant or 250-500ml of 700g/L surfactant. Do not add any other agricultural

## Rainfall Effects

chemicals, spraying oils or other materials except as directed on the label.

Heavy rain within 2 hours of spraying can mean that the chemical may be washed off the plant, with the result that the herbicide may not be totally effective. Respraying may

Normal rain up to 6 hours after application may reduce effectiveness. Lack of rain, i.e. drought conditions, is not time to spray as vegetation will not be receptive to uptaking chemical. Likewise, in waterlogged conditions or after frost similar comments apply.

The product is not persistent in soils and is rapidly broken down by microbes present in the soil as well as by hydrolysis caused by free standing moisture or soil moisture that may be present in soil particles. Should residual activity be needed refer to 'Compatibility Section' of this label.

#### RESISTANT WEED WARNING

# GROUP M HERBICIDE

Spalding Glyphosate 450 Herbicide is a member of the Glycine group of herbicides. Spalding Glyphosate 450 Herbicide has the inhibitor of EPSP synthase mode of action For weed resistance management Spalding Glyphosate 450 Herbicide is a Group M

Herbicide. Some naturally occurring weed biotypes resistant to Spalding Glyphosate 450 Herbicide and other inhibitors of EPSP synthase mode of action herbicides may exist through normal genetic variability in any weed population. These resistant individuals can

eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by Spalding Glyphosate 450 Herbicide or any other inhibitors of EPSP synthase herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Spalding Holdings Pty Ltd accepts no liability for any losses that may result from the failure of

Spalding Glyphosate 450 Herbicide to control resistant weeds

#### Application Equipmen

### Types of Equipment

The following types of equipment may be used in applying Spalding Glyphosate 450 Herbicide:

- Knapsack Handgun
- Boom

#### For Knapsack and Handgun Equipment

Maximum efficiency can be achieved by using a D6 spray plate and applying at a pressure of 400-700 kPa. As the product is translocated through contact points on the plant, good coverage is needed to maximise uptake by the plant. Volume used per given area will vary according to the density of the target species present.

#### For Boom Equipment

Maximum efficiency can be achieved by using fan nozzles at a pressure of 240-280kPa. Water volumes per hectare of treated area can vary depending on density of the target species but no more than 200 litres would be necessary. In conservation tillage situations volumes in the 50 - 100 litre/ha range would suffice.

## For Aerial Equipment

Using Micronair and boom equipment a droplet size of 250-350 micron diameter is recommended. A swath width in the range of 15-17 metres is most appropriate for this form of spraying. Minimum spray volume would be 15 litres/ha. When using this form of application gives consideration to the fact that the product is

highly non-selective and if desirable plants, trees etc are in the vicinity of the area to be sprayed, they could be affected by drift or targeted contact. This would limit usage via this technique to such situations as weed control on fallows or

pasture, control prior to establishment of crops or pasture.

Another point to bear in mind is that on sloping terrain height above the ground may vary from point-to-point, and at any given point, from boom tip to boom tip. It is also worth

remembering that there is more land area on a hilly block than a flat block, even though the perimeter distance may be the same. In such situations increase the water volume to 30-80 litres/ha and increase the droplet size to a minimum of 300-micron average size. Note: In high temperatures and dry conditions evaporation of droplets prior to reaching target species can occur and it is therefore important to increase water volumes to at least 30 litres/ha and average droplet size to 300 micron if temperatures are in excess of 30°C.

DO NOT SPRAY if temperature is above 30°C.
Use recommended rates specified on this label up to a maximum limit of 3.2L/ha.

#### For Wiper Equipment Such as Ropewick applicators etc detailed information should be obtained from the

manufacturers. As a general guide 800mL of product should be mixed with 2 litres of water. Weeds should ideally be 5cm above the crop or pasture. One pass in each direction commonly referred to, as a 'double pass' will maximise effectiveness. The lower the vehicle speed the better the result. Certainly no faster than 8km/hr is recommended.

#### Sprayer Clean Up After use, clean all spray equipment by thoroughly washing with clean water, in order

to prevent corrosion to tanks, lines and nozzles. Aircraft used in application should be thoroughly washed with particular attention to wheels and landing gear.

## Compatibility

It has been established that the following products may be mixed with Glyphosate to broaden the spectrum of pests controlled, add soil residual activity and improve performance. Refer to the 'Directions for Use' Section for detailed information on the tank

Additives: Crystalline Ammonium Sulphate assists in minimizing antagonism when mixed with flowable Triazine herbicides. The only form of Ammonium Sulphate to be used is the crystalline form (not prilled or granular forms). Test the quality by dissolving 2 tablespoons in 2 litres of water. Swirl gently for 2 minutes. Should undissolved particles remain at the end of that time, pre-dissolve them prior to adding product to spray tank. Ensure solution is poured through a screen.

Herbicides: Atrazine - flowable or granular (see additives above - do not apply the tank mix for control of Barnyard grass or Liverseed grass), Dicamba, 2,4-D ester, Express, Triclopyr, chlorsulfuron, metsulfuron, Yield, Stomp, Triasulfuron, LVE MCPA, Goal.

Goal – The addition of Goal CT at 75mL/ha to recommended rates of this product prior to planting wheat or barley will improve knockdown and increase the speed at which treated weeds develop visible symptoms of phytotoxicity. Add Flowright Compatibility agent to improve the compatibility in cold water (less than 15°C). See Directions below.

Insecticides: Chlorpyrifos, Dimethoate, Fenitrothion, Gusathion, Imidan (phosmet), Le-mat (omethoate), metasystox, Sumithion, Perfekthion EC 400

## Flowright compatibility agent

Rate: 200L/100L spray solution. When mixing with Goal CT, add to improve the compatibility in cold water (less than 15°C). Flowright must be pre-mixed with Goal CT before adding to the spray tank. Refer to Flowright label for directions.

## PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

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

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

# PROTECTION OF LIVESTOCK

There is no withholding period for grazing stock, but to give the product a chance to be efficiently absorbed by sprayed vegetation, it is recommended that livestock be kept clear of treated annual weeds for one day after spraying, and for perennial weeds 7 weeds. For certain plants known to be toxic to stock, it is advisable to keep livestock away until complete browning occurs.

## STORAGE AND DISPOSAL

Do not store the product in galvanised steel or unlined steel containers, as the product may react to produce Hydrogen gas a highly combustible gas that could explode if ignited by an open flame, or spark, lighted cigarette etc.

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 empty 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, and or puncture and bury empty containers in a local authority landfill. If no landfill is available bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable

vegetation and tree roots. Empty containers and product should not be burnt.

For refillable containers: Empty containers fully into application equipment. Close all valves and return to point of supply for refill or storage.

## SAFETY DIRECTIONS

Product will irritate the eyes and skin. Avoid contact with eyes and skin. When preparing product for use wear elbow length PVC gloves and face shield or goggles. When using controlled droplet applicator wear protective waterproof clothing and impervious footwear

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each days use, wash gloves and 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

Additional information is listed in the Material Safety Data Sheet that can be obtained from the supplier.

## LIMIT OF WARRANTY AND LIABILITY

Spalding Holdings Pty Ltd. ('Spalding') warrants that this material conforms to the Spalding, no responsibility whatsoever for any consequences is accepted in respect of this product, save those non-excludable conditions implied by any State and Federal legislation or law of a Territory. Not for repackaging or reformulation. No license under any non-Australian patent is granted or implied by purchase of this container.