

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



Glyphosate 450

HERBICIDE

ACTIVE CONSTITUENT: 450 g/L GLYPHOSATE present as the ISOPROPYLAMINE SALT

GROUP M HERBICIDE

Water soluble herbicide for non-selective control of many annual and perennial weeds in the situations stated in the directions for use table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE

CONTENTS: 1000 LITRES

Australis Crop Protection Pty Ltd

ABN 94 150 711 185

Shop 4, 30 Heber Street, Moree NSW 2400

Telephone: 0417 329 133 • Facsimile: 07 3337 9882

www.austcrop.com.au

BATCH NO:

DATE OF MANUFACTURE:



Glyphosate 450

HERBICIDE

STORAGE AND DISPOSAL

Store in the closed, original container in a well-ventilated area as cool as possible. DO NOT store for prolonged periods in direct sunlight. Do not store with seeds, foodstuffs or fertilizer. Do not use this container for any other purpose.

For Non-Refillable Containers: Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

For Refillable Containers: 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 Australis Crop Protection Pty Ltd should be advised immediately. Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Product will irritate eyes and 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 gloves, goggles or face shield 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 which can be obtained from the supplier.

CONDITIONS OF SALE: The use of ACP Glyphosate 450 Herbicide being beyond the control of the manufacturer no warranty expressed or implied is given by Australis Crop Protection Pty Ltd regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Australis Crop Protection Pty Ltd accepts no responsibility for any consequence whatsoever resulting from the use of this product.

APVMA Approval No.: 66524/53822

IN A TRANSPORT EMERGENCY

DIAL 000

POLICE OR FIRE BRIGADE



AUSTRALIS
CROP PROTECTION

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DIRECTIONS FOR USE

Restrains: For best results do not disturb sprayed weeds by cultivation or heavy grazing for 1 day post spraying of annual weeds or 7 days post spraying of perennial weeds. Avoid spraying if rain is expected within 6 hours.

If heavy rainfall occurs within 2 hours after application, a repeat application may be required.

DO NOT apply to weeds under stress.

SITUATION	WEEDS CONTROLLED	BOOM SPRAY RATE VOL/HA	STATE	CRITICAL COMMENTS
For reduced cultivation, seed bed salvage and direct drilling prior to sowing winter crop or pasture. For weed control prior to full disturbance with cultivation or sowing with a tyned implement.	Barley Grass, Brome Grass, Volunteer Cereals, Wild Oats	400-800 mL pre tillering 800 mL-1.0 L post tillering	NSW, Vic, SA, WA only (SOUTHERN AUSTRALIA)	Apply to actively growing weeds only. DO NOT spray plants stressed due to low moisture levels, frost disease, waterlogging or covered with dust. Seeding can commence 1 day after spraying for annual weeds and 7-10 days for perennial weeds, providing a suitable seed bed condition exists. In grazed situations remove stock to allow 6-8cm re-growth before spraying. If cultivation or sowing does not take place within 21 days repeat treatment may be required. Where annual ryegrass is present the addition of Wetter* TX at 200 mL/100 L of spray solution may assist control. Use higher rates when: 1. Late in the season where grasses reach tillering or where broadleaf weeds reach stem elongation/budding. 2. Spraying in cold or overcast conditions. Note: Barnyard Grass and Liverseed Grass are particularly prone to moisture stress. Sowing should not proceed until conditions allow formation of a satisfactory seedbed. Where heavy weed growth is present sowing must be delayed until weed decay and soil conditions allow formation of a satisfactory seedbed. Incorporation of green or decaying vegetation into seedbeds via cultivation or sowing may retard crop emergence. In marginal seedbed conditions take care to achieve correct seeding depth.
	Annual Phalaris, Annual Ryegrass, Silver Grass, Winter Grass	800 mL-1.0 L pre tillering 1.0-1.2 L post tillering		
	Capeweed, Doublegee (Spiny Emex)	400-800 mL less than 8 cm diameter 800 mL-1.2 L greater than 8 cm diameter		
	Amsinkia, Fumitory, Paterson's Curse, Saffron Thistle, Scotch Thistle, Spear Thistle, Variegated Thistle, Volunteer Lupins, Wild Turnip	800 mL-1.0 L less than 12 cm diameter 800 mL-1.2 L greater than 12 cm diameter		
	Dock (seedling)	800 mL-1.2 L		
	Perennial Phalaris, Sorrel, Sub-clover, Soursob, Skeleton Weed – fully emerged rosettes (NSW only)	1.2 L		
	All the above weeds	1.2-2.4 L		
Late winter-spring applications. Prior to sowing a summer crop or commencement of fallow.	Barley Grass, Volunteer Cereals, Wild Oats	800 mL-1.2 L	NSW, Vic, SA, WA only	
	Annual Ryegrass, Brome Grass, Silver Grass, Capeweed, Paterson's Curse (rosette), Saffron Thistle, Scotch Thistle, Spear Thistle, Wild Mustard, Wild Radish, Wild Turnip	1.2-1.6 L	(SOUTH AUSTRALIA)	
	All the above weeds	1.5-3.0 L	Tas only	
				TASMANIA: Where perennial weeds are being treated increase to 2.4 L/ha use the 1.2 L/ha rate on annual weeds. To control clover and improve control of Sorrel and Dock add Dicamba at 1 L/ha of 200 g/L formulation. Observe Dicamba plant back periods.

SITUATION	WEEDS CONTROLLED	BOOM SPRAY RATE VOL/HA	STATE	CRITICAL COMMENTS
Prior to sowing winter crop or for weed control in summer fallows.	Annual Phalaris, Barley Grass, Volunteer Cereals, Wild Oats	500-800 mL	Qld, NSW only	
	Barnyard Grass, Liverseed Grass, Stinkgrass (Lovegrass), Sweet Summer Grass, Volunteer Sorghum	800 mL-1.2 L	(NORTHERN AUSTRALIA)	
	Amaranth, Australian Bluebell (Qld only), Cudweed, Fumitory, Mexican Poppy, Mintweed, New Zealand Spinach, Noogoora Burr, Saffron Thistle, Spear Thistle, Spurge, Stinking Goosefoot, Variegated Thistle, Volunteer Sunflower, Yellowvine (Caltrop)	800 mL-1.2 L		
	Annual Ground Cherry (Gooseberry), Camel Melon, Bladder Ketmia, Sowthistle (Milk Thistle), Turnip Weed, Wild Lettuce, Wild Turnip	800 mL-1.2 L prior to stem elongation/budding. After that use 400 mL-1.2 L plus 500-700 mL 2,4-D Ester (800g/L) or 1.2-1.6 L		
Seed Set Control in Pastures.	Annual Ryegrass	360 mL	NSW, Vic, Tas, SA only	<ul style="list-style-type: none"> - Annual Ryegrass to be sprayed at flowering. - Use higher rates where Annual Ryegrass is present or where there is dense growth - Livestock to be removed prior to spraying to allow for an even regrowth. - Grasses other than Annual Ryegrass can be sprayed from head to milky dough stage. - Legume seed set will be adversely affected if spraying occurs at flowering or early seed set. - The addition of a 100% non-ionic surfactant may be required.
Seed Set Control of Certain Annual Grass Weeds	Silver Grass, Barley Grass, Brome Grass	240-360 mL		



SITUATION	WEEDS CONTROLLED	APPLICATION RATES			STATE	CRITICAL COMMENTS
		BOOM L/ha	HANDGUN PER 100L/WATER	KNAPSACK PER 15 L		
Woody and Perennial Weeds in Pastures, Forests and non-agricultural areas. NOT for Aquatic Weeds. (Spot directed or wiper application is required for selectivity in established pastures and forests).	Bracken	–	1.2 L	180 mL	Qld, NSW, Vic, Tas, SA only	Multirope-wiper or feltwiper equipment is recommended. Dilute at rate of 1 part ACP Glyphosate 450 Herbicide to 2.75 part water. For pipewick equipment, a double pass application is required. In late winter/spring prior to treatment, bracken should be slashed. Then prior to frosts, apply in March-May to actively growing fronds. It may be necessary to repeat treatment, in conjunction with pasture improvement for long term control.
	Cocksfoot, Flatweed	2.4 L	560 mL	80 mL		Apply at early head stage to actively growing weeds.
	Carpet Grass		400 mL	60 mL		
	Johnson Grass, Nutgrass, Sorrel	4.8 L	800 mL	120 mL		For Johnson Grass apply at early head stage to actively growing weeds. For Nutgrass apply to growing plants in late summer, i.e. February to mid April when at least 20-25% have reached to head stage. Apply in split application 6-8 weeks apart. For Sorrel apply to actively growing weeds when the majority have reached the early bud stage.
	Kikuyu, Paspalum	1.1-4.8 L	800 mL	120 mL	Qld, NSW, Vic, Tas only	Apply to Paspalum at early head stage. Apply to actively growing weeds. Use the low rate in boomspray column for suppression only. Where complete control is required use 4.8 L/ha.
	Boxthorn, African		560-800 mL	80-120 mL		Use the lower rate on young shrubs. Use the higher rate on mature and tall shrubs. * DO NOT spray in dry conditions. Complete spraying of foliage cover is essential for total control.
	Blackberry		800 mL-1.0 L	120-160 mL		Should be applied between January-May, i.e. from flowering to leaf fall. See that plants are not under stress. Complete spraying of foliage cover is essential for total control. Use the higher rate on old, dense infestations over 1.75m high.



SITUATION	WEEDS CONTROLLED	APPLICATION RATES			STATE	CRITICAL COMMENTS
		BOOM L/ha	HANDGUN PER 100L/WATER	KNAPSACK PER 15 L		
Woody and Perennial Weeds in Pastures, Forests and non-agricultural areas. NOT for Aquatic Weeds. (Spot directed or wiper application is required for selectivity in established pastures and forests). – continued	Water Couch	7.2 L	1.0 L	160 mL	Qld, NSW, Vic, Tas only	DO NOT apply in aquatic situations. Apply on land or in dry channels, dry drains and/or margins of dams, lakes and streams. If applying in dry channels and drains and/or dry margins of dams, lakes or streams: - DO NOT apply to weeds over water; - DO NOT spray across open bodies of water and DO NOT allow spray to enter the water; and - DO NOT allow water to return to dry channels and drains within 4 days of application. Apply to actively growing weeds in late Summer (i.e. February to March) before the onset of frosts.
Orchards including Citrus, Pome and Vineyards (Grapes)	Amaranth, Barnyard Grass, Chickweed, Double Gee, Liverseed Grass, Paterson's Curse, Pigweed, Rye Grass, Spear Thistle, Spiny Burr Grass, Thornapple, Wild Oats, Winter Grass	1.6-2.4 L	400-560 mL	60-80 mL	Qld, NSW, Vic, Tas, SA only	DO NOT allow spray to drift on to crop. ACP Glyphosate 450 Herbicide can be used as a tank mixture with Simazine formulations for the residual control of annual weeds. Apply as directed or shielded spray or using selective application equipment. DO NOT apply as a spray near trees or vines less than 3 years old. DO NOT allow spray or spray drift to contact green bark or stems, laterals, fresh wounds, foliage or fruit.
	Couch	7.2 L	1.0 L	160 mL		

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

GENERAL INSTRUCTIONS

- ACP Glyphosate 450 Herbicide is a non-selective herbicide. It is absorbed by plant foliage and green stems and is translocated through the plant from point of contact into the root system.
- The effects of ACP Glyphosate 450 Herbicide may not be apparent for 4-7 days depending on weather conditions, weed species and the herbicide use rate. Some perennial weeds may not show effects for 10-20 days.
- There is no withholding period for ACP Glyphosate 450 Herbicide. It is advisable, however, to avoid grazing sprayed areas for one day where the annual weeds are present. Or 7 days where perennial weeds are present. This allows ACP Glyphosate 450 Herbicide to be fully absorbed.
- ACP Glyphosate 450 Herbicide will control emerged weeds only, and provides no residual control.

RESISTANT WEEDS WARNING

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

GROUP M HERBICIDE

Some naturally occurring weed biotypes resistant to ACP 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 ACP Glyphosate 450 Herbicide or other inhibitors of EPSP synthase herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Australis Crop Protection Pty Ltd accepts no liability for any losses that may result from the failure of ACP Glyphosate 450 Herbicide to control resistant weeds.

MIXING PROCEDURES

Important: ACP Glyphosate 450 Herbicide and mixtures of should only be stored and applied in plastic lined containers. Aluminium, brass, copper and stainless steel containers may cause a highly flammable gas to form causing potential explosion if ignited by any ignition source (open flames etc.).

- A. Spray tank should be free of any previous spray chemicals. A suitable tank cleaning agent is recommended.
- B. Half fill spray tank with clean water, add required amount of ACP Glyphosate 450 Herbicide, then fill with clean water. Add surfactant last.
- C. Agitate before spraying.
- D. When tank mixing with other chemicals, add this product after water soluble products but before flowables, e.g. Flowable Diuron.

SURFACTANT ADDITION

The addition of a 1000 g/L non-ionic surfactant at 200 mL per 100 L spray solution is recommended with this product in all situations where the ratio of ACP Glyphosate 450 Herbicide vol/ha is 2% or less of the total spray volume L/ha.

TANK MIXTURES

ACP Glyphosate 450 Herbicide can be tank mixed with Chlorsulfuron in fallow or pre-sowing, to knockdown and residual control. Observe respective label for Directions for Use and crop rotation recommendations.

ACP Glyphosate 450 Herbicide & 2,4-D Ester may be tank mixed for improved control of certain broadleaf weeds. Observe regional restriction, plant back periods and cautions on the 2,4-D Ester label.

ACP Glyphosate 450 Herbicide can be tank mixed with Dicamba 200 for improved control of sorrel, sub-clover, medics and white clover.

Atrazine/Simazine: For knockdown and residual control ACP Glyphosate 450 Herbicide can be tank mixed with either Flowable Simazine or Flowable Atrazine.

Please note: Atrazine is not registered for industrial or horticultural use; non-crop situations generally (particularly NOT in channels and drains); application within 60m of natural or impounded lakes or dams and/or; mixing/loading or application within 20m of any well, sinkhole, intermittent or perennial stream or river.

Please observe Directions of Use Table and crops suitable on the respective labels. When tank mixing these products, the addition of a crystalline ammonium sulphate is recommended to avoid antagonism at a rate of 2 kg/100 L spray solution. DO NOT apply tank mix by air.

Warning: Mixtures of this product and atrazine do not control Barnyard Grass.

APPLICATION

- A. **BOOM EQUIPMENT:** A low spray volume of 25-120 L/ha is recommended. Ensure a double overlap of nozzle patterns at the top of the weed canopy.
Note: Fan nozzle equipment should be used at pressures in the range of 240-280kPa.
- B. **AERIAL APPLICATION:** ACP Glyphosate 450 Herbicide may be aerially applied in pasture or fallow situations prior to establishment of field crops, fodder crops or new pasture. Apply in spray volumes of 15-80 L per hectare, increased spray volumes should be used in difficult situations such as mountainous areas and hill terrains. This will ensure adequate coverage. **DO NOT** use in intensive horticultural areas.
- C. **DO NOT** use controlled droplet application (CDA) to apply this product.

APPLICATION PROCEDURE IN HOT CONDITIONS

It is recommended that when the temperature exceeds 23 degrees C to 26 degrees C, increase droplet size to at least 300 micron VMD. Aerial application is not recommended at temperatures above 32 degrees C.

WASHING AND CLEANING OF EQUIPMENT

Take careful precautions with regard to the washing of all spray equipment after each day of spraying. Using clean water, wash spray tank, nozzles, pumps, etc. Aircraft should be thoroughly washed, especially landing gear, after each day of spraying. Spray tanks pumps, lines and nozzles should be thoroughly rinsed with clean water following application to prevent corrosion.

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.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

ACP Glyphosate 450 Herbicide is a translocated herbicide.

Direct contact or drift of ACP Glyphosate 450 Herbicide on any growing crop, desirable plants or trees may cause severe damage or death.

DO NOT apply under meteorological conditions, or from spraying equipment which would be expected to cause drift onto nearby susceptible plants, adjacent crops, crop lands or pasture.

STORAGE AND DISPOSAL

Store in the closed, original container in a well ventilated area, as cool as possible.

DO NOT store for prolonged periods in direct sunlight.

DO NOT store with seeds, foodstuffs or fertilizer.

DO NOT use this container for any other purpose.

The method of disposal of the container depends on the container type.

Read the Storage and Disposal instructions on the label that is attached to the container.

SAFETY DIRECTIONS

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* Other trademarks

