

CAUTION

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



ZERO[®]AQUA HERBICIDE

ACTIVE CONSTITUENT: 360g/L GLYPHOSATE PRESENT AS THE ISOPROPYLAMINE SALT

GROUP M HERBICIDE

A non-selective herbicide for control of annual and perennial weeds in certain situations.

Suitable for use in aquatic areas.

2.5L

IMPORTANT: READ THIS BOOKLET BEFORE USING THIS PRODUCT

DIRECTIONS FOR USE RESTRAINTS

• DO NOT spray Yates Zero Aqua if rain is likely to occur within 6 hours. Heavy rainfall within 2 hours after application may wash the chemical off the foliage and a repeat treatment may be required. • DO NOT add extra surfactant or mix with agricultural chemicals, herbicide oils or any other materials unless specifically directed on the label.

ANNUAL WEEDS—non cultivated situation
WA, SA, VIC, NSW, ACT, QLD, TAS only

Weeds controlled	Application rate	Critical comments
<p><i>Amaranth (Amaranthus spp.)</i>, <i>Barley grass (Hordeum leporinum)</i>, <i>Barnyard grass (Echinochloa spp.)</i>, <i>Brome grass (Bromus spp.)</i>, <i>Caltrop (Tribulus terrestris)</i>, <i>Canary grass (Phalaris spp.)</i>, <i>Capeweed (Arctotheca calendula)</i>, <i>Volunteer cereals</i>, <i>Chickweed (Stellaria media)</i>, <i>Doublegee (Emex australis)</i>, <i>Erodium (Erodium spp.)</i>, <i>Fumitory (Fumaria officinalis, Fumaria muralis)</i>, <i>Liverseed Grass (Urochloa panicoides)</i>, <i>Mintweed (Salvia reflexa)</i>, <i>Paterson's Curse (Echium plantagineum)</i>, <i>Pigweed (Portulaca oleracea)</i>, <i>Ryegrass (Lolium rigidum)</i>, <i>Saffron thistle (Carthamus lanatus)</i>, <i>Silver Grass (Vulpia spp.)</i>, <i>Spurge (Euphorbia spp.)</i>, <i>Sub Clover (Trifolium subterraneum)</i>, <i>Wild Mustard (Sisymbrium officinale)</i>. <i>Wild Turnip (Brassica tournefortii)</i></p>	<p>Boom 2L to 3L/ha</p>	<ol style="list-style-type: none"> 1. Yates Zero Aqua is foliar absorbed and translocated so application is carried out when plants are actively growing. 2. The effects of Yates Zero Aqua may not be apparent for 3–7 days depending on weather conditions, weed species and herbicide use rate. 3. Use lower rates when emerged weeds are less than 15cm in diameter. 4. Yates Zero Aqua is non residual. Repeat treatments may be necessary to control later germinations of weeds. 5. Tank mixes of Atrazine Flowable or Simazine Flowable with Yates Zero Aqua will provide residual control. Refer to "Tank Mixtures" section.
	<p>Handgun 500mL to 700mL/100L</p>	
	<p>Knapsack 75mL to 100mL/15L</p>	

PERENNIAL WEEDS—non cultivated situations
WA, SA, VIC, NSW, ACT, QLD, TAS only

Weeds controlled	Application rate			Critical comments
	Boom L/Ha	Handgun Vol/100L	Knapsack Vol/15L	
Blackberry (<i>Rubus fruticosus</i>)		1L to 1.3L	150mL to 200mL	<ol style="list-style-type: none"> 1. Spray plants from flowering to leaf fall. 2. Total leaf area must be covered by spray solution for the best results. 3. Use the higher rate on plants over 2 metres tall and where foliage is thick and total coverage may not be possible. 4. The effects of spraying may not be apparent until the following season. 5. Spot spraying may be necessary the following season for best results. 6. In Tasmania do not treat bushes bearing mature fruit. 7. Use of CDA equipment is not recommended.

Weeds controlled	Application rate			Critical comments
	Boom L/Ha	Handgun Vol/100L	Knapsack Vol/15L	
African Boxthorn <i>(Lycium ferocissimum)</i>		700mL to 1L	100mL to 150mL	<ol style="list-style-type: none"> 1. Use lower rates on young plants. 2. Use the higher rate on large mature plants. 3. Total leaf area must be covered by spray solution for best results. 4. Do not spray during hot, dry summer periods. 5. Use of CDA equipment is not recommended.
Bracken <i>(Pteridium esculentum)</i>		1.5L	225mL	<ol style="list-style-type: none"> 1. Pre slash bracken in spring/summer prior to treatment in March/May. 2. Apply to fully unfurled and actively growing fronds. 3. Results may not be visible until the next season. 4. Follow up application is recommended.

Weeds controlled	Application rate			Critical comments
	Boom L/Ha	Handgun Vol/100L	Knapsack mL/15L	
Carpet grass (<i>Axonopus spp.</i>)	3L	500mL	75mL	1. Apply to actively growing plants when most have reached the early head stage. 2. For Couch in SA and WA apply in Oct–Nov.
Cocksfoot (<i>Dactylis glomerata</i>)	3L	700mL	100mL	
Couch grass (<i>Cynodon dactylon</i>)	9L	1.3L	200mL	
Guinea grass (<i>Panicum maximum</i>)	9L	1.3L	200mL	
Johnson grass (<i>Sorghum halepense</i>)	6L	1L	150mL	
Kangaroo grass (<i>Themeda australis</i>)				Apply to actively growing plants when most have reached early head stage.
Kikuyu (<i>Pennisetum clandestinum</i>)				
Paspalum (<i>Paspalum dilatatum</i>)				
Yorkshire fog (<i>Holcus lanatus</i>)	3L	700mL	100mL	

UNWANTED TREES—All States

Stem Injection

For trees with a basal diameter up to 30 cm: mix 1 part of Yates Zero Aqua with 1 part water and apply 2mL per cut.

For trees with a basal diameter of 30-70 cm: mix 1 part of Yates Zero Aqua with 1 part water and apply 3mL per cut.

For use in orchard areas, small holdings, pastures, right of ways.

Make a 5cm cut at an oblique angle to penetrate the sapwood beneath the bark.

Space cuts every 13 cm below branching. Apply once during the period March to May.

GENERAL USES

Weeds controlled	State	Critical comments
Forests	WA, SA, VIC, NSW, ACT, QLD, TAS only	<ol style="list-style-type: none">1. Yates Zero Aqua can be used to control weeds prior to establishing nurseries, site preparation prior to planting and amongst established trees using directed spray.2. Avoid spray drift contacting leaves or green bark on trees as severe injury may occur.
Horticultural vineyards, nuts (including almond, pecan, macadamia, pistachio, walnut), citrus, stone fruit	All States	<ol style="list-style-type: none">1. Yates Zero Aqua can be used prior to establishment and as a directed or shielded spray around vines, trees or interplants over 3 years of age.2. Spraying should be done prior to bloom stage of vines.3. Avoid spray or spray drift contacting buds, leaves, green stems, suckers, fresh wounds or fruits as severe injury may occur.4. For residual control of annual weeds, Yates Zero Aqua can be tank mixed with simazine flowable. Refer to 'Tank Mixtures' section.5. Mature trunks are not to be sprayed or subjected to drift.6. NSW only. This treatment is not recommended for nuts.
Non-agricultural areas around buildings, commercial, domestic, industrial and public service areas	All States	For residual control of annual weeds Yates Zero Aqua can be tank-mixed with flowable atrazine or simazine formulations. Refer to 'Tank Mixtures' section.

AQUATIC WEED CONTROL

Aquatic areas for the control of emerged weeds in all fresh and brackish water which may be flowing or non-flowing or transient. Also for weeds on sides or banks of streams, lakes and in channels and drains.

(see weed table below)

All States

General instructions:

1. Reduction in effectiveness may result if more than $\frac{1}{4}$ of the above ground portion of the weed is submerged at treatment. Submerging the treated plants following treatment may result in spray being washed from the plant surface, thus reducing efficacy.
2. DO NOT apply this product within 0.5km up-stream of a potable water intake in flowing water (ie. river or stream etc) or within 0.5km of a potable water intake in a standing body of water such as a lake, pond or reservoir. Applications to moving bodies of water should be made while traveling upstream wherever possible to prevent concentration of this herbicide in water. When making any bank side applications, do not overspray more than 0.5m into open water. Avoid spraying across moving bodies of water, or where weeds do not exist.
3. When spraying floating weeds, use a low volume, low pressure boom sprayer, CDA or sprinkler sprayer. Do not submerge the weeds when spraying as this wash the herbicide off the leaves.
4. When emerged infestations require treatment of the total surface area of impounded water, treating the area in strips may avoid sudden impact on habitat.

Weeds controlled	State	Application rate			Critical comments
		Boom L/ha	Handgun vol/100L	Knapsack mL/15L	
Alligator weed (<i>Alternanthera philoxeroides</i>)	All States		1L	150mL	Apply when actively growing from summer to winter. Floating form only.
Cumbungi (<i>Typha spp.</i>)	All States	9L	1.3L	200mL	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. Wiper application is recommended (not Tasmania). See Wiper Equipment section.
Paragrass (<i>Bracharia mutica</i>)		9L	1.3L	200mL	Apply to actively growing plants when most have reached early head stage.
Phragmites, Common reed (<i>Phragmites australis</i>)	All States	9L	1.3L	200mL	Apply to actively growing fully developed plants approaching early head stage. Visible symptoms of control may be slow to develop and may not be fully apparent until the next season. For wiper application see Wiper Equipment section.

Weeds controlled	State	Application rate			Critical comments
		Boom L/ha	Handgun vol/100L	Knapsack mL/15L	
Rushes (<i>Juncus spp.</i>)	All States	See Critical Comments			Apply by wiper equipment to actively growing plants. Where there is a large proportion of dead foliage, pre-slashing is recommended. Allow adequate regrowth before treatment. Refer to Wiper Equipment section for application instructions
Tall sedge (<i>Carex appressa</i>)	NSW, VIC, TAS only	2L or 4L	500mL or 1L	75mL or 150mL	Apply to actively growing plants in flowering to post-flowering period (Oct–Apr). 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.
Water couch (<i>Paspalum distichum</i>)	All States	9L	1.3L	200mL	Apply to actively growing plants in late summer-autumn (Feb–Mar). Do not treat after March because of onset of winter dormancy. Full results may not be visible until the following spring. Not more than ¼ of the weed should be submerged at the time of treatment.

Weeds controlled	State	Application rate			Critical comments
		Boom L/Ha	Handgun Vol/100L	Knapsack Vol/15L	
Water Hyacinth	All States	6L to 9L	1L to 1.3L	150mL to 200mL	Apply when actively growing and at or beyond the early bloom stage of growth. Use the higher rate for dense infestations.
Water lettuce	All States		1L to 1.3L	150mL to 200mL	Best results are obtained from mid-summer through winter. Use the higher rate on dense infestations.
Waterlily, Yellow	All States	6L	1L	150mL	Apply when there is a maximum emergence of floating leaves. Allow 2-3 weeks for symptoms to develop, then retreat any unaffected plants. Use low volume sprayer.

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

- Yates Zero Aqua is a non-selective, water soluble liquid herbicide effective in the control of many annual and perennial grasses and broadleaf weeds in crop areas, land preparations, aquatic and non-crop areas.
- Yates Zero Aqua is inactivated in soil and does not provide residual weed control.
- Yates Zero Aqua is absorbed by the plant foliage and green stems and moves through the plant from point of contact to root system.
- Visible effects are gradual yellowing, and wilting of the plant which advances to complete browning of growth above the ground and deterioration of underground plant parts.
- Visible effects takes 3 to 7 days on annual weeds, whereas on perennial weeds it may take 2 to 3 weeks or longer depending on weather conditions following spraying.

GROUP M HERBICIDE

RESISTANT WEEDS WARNING

- Yates Zero Aqua is a member of the Glycines group of herbicides. The product has the inhibitors of EPSP synthase mode of action. For weed resistance management, the product is a Group M herbicide.
- Some naturally occurring weed biotypes resistant to the product and other Group M herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. The resistant weeds will not be controlled by this product or other Group M herbicides.
- Since the occurrence of resistant weeds is difficult to detect prior to use, Yates Australia accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

MIXING

- Clean spray tank and assure it is free from residues of previous spray materials.
- Fill the spray tank with half the required amount of clean water. Add the required amount of Yates Zero Aqua and mix well before adding the remaining water.
- If surfactant is required, add this last to minimise foaming.
- Agitate well before spraying.
- When preparing spray solution, use clean water since hard water containing calcium salts could inactivate glyphosate.
- Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, brass, copper, fibreglass, plastic or plastic-lined spray tanks. Do not mix or store the product or spray solutions in galvanised steel or unlined steel (except stainless steel).

TANK MIXES

Atrazines/Simazines: Yates Zero Aqua may be tank mixed with Atrazine Flowable or Simazine Flowable for knockdown and residual weed control.

Crystalline Ammonium Sulphate: RATE: 2% w/v (2kg/100L spray solution). The addition of crystalline ammonium sulphate to Yates Zero Aqua, when used to control ANNUAL weeds, MAY improve the performance of Yates Zero Aqua under adverse environmental conditions such as cool, cloudy weather, and assist in minimizing the antagonism in tank mixes of Yates Zero Aqua and flowable triazine herbicides. Use only crystalline ammonium sulphate, NOT prilled or granulated forms. Ammonium sulphate may be corrosive to metal parts of the sprayer. Thoroughly flush tanks, pumps and nozzles with water after use.

Dicamba: Yates Zero Aqua and Dicamba may be tank mixed for more effective control of Sorrel, Sub. Clover, medics.

2,4-D Esters: Yates Zero Aqua may be tank mixed with 2,4-D Ester for improved control of broadleaf weeds.

APPLICATION

Boom Equipment: Use at spray volume of 25 to 100 L/ha. Fan nozzles at pressure of 240–280 Kpa is recommended. Boom height must be set to ensure double overlap of nozzle patterns at the top of the weed canopy.

Knapsack and Handgun Equipment: Adjust equipment to deliver a fine spray pattern and ensure a complete and uniform wetting of all foliage. Do not spray in conditions conducive to spray drift.

Wiper Equipment: wiper equipment (e.g. ropewick, canvas, felt or carpet applicators) may be used to apply Yates Zero Aqua to weeds growing in oilseed crops, sugarcane, cotton, seed and pod vegetables, tree and vine crops specified in this label, pasture and non-crop areas. Avoid contact with desirable vegetation.

- Operate wiper equipment a minimum of 10cm above crop or pasture. Weeds should be at least 15cm above crop or pasture at time of application. Speed of travel should be no greater than 8km/h. Best results are achieved at lower speeds and where two applications are made in opposite directions (double pass).
- Where weeds are of variable height or occur in dense infestations or clumps, some plants may not be contacted by the herbicide solution. In these cases repeat treatment may be necessary.
- Mix only enough herbicide solution for immediate requirements. Do not store mixed solution for more than a few days. Flush out equipment with water after use.

Controlled Droplet Application equipment (CDA): use the following table as a guide for achieving the correct application rates using the Micron Herbi or similar rates and use recommendations. For hand held equipment a walking speed of approximately 1m/sec (4km/h) is recommended.

Rate of Yates Zero Aqua delivered at 1m/sec	3L/ha	6L/ha	9L/ha
Mixture (by volume) Yates Zero Aqua: Water	1:3	1:1	2:1
Micron Herbi nozzle	Blue	Blue	Yellow

Do not add oils to Yates Zero Aqua/water mixture, otherwise difficulty in application and reduced weed control may occur.

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

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

- DO NOT contaminate dams, rivers or streams with the product or used containers.
- When controlling weeds near water, refer to label directions to minimize the entry of spray into the water.

PROTECTION OF CROP, NATIVE AND OTHER NON-TARGET PLANTS.

- Contact with desirable plants and trees may cause severe damage or destruction.
- DO NOT apply under weather conditions, or from spraying equipment, that may cause spray drift onto nearby susceptible plants/ crops, cropping lands or pastures.

PROTECTION OF LIVESTOCK

No withholding period is required for this product. However, to ensure herbicide absorption, grazing of treated areas should be delayed at least one day after treatment of annual weeds and for 7 days for perennial weeds.