

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



Armoury Herbicide

ACTIVE CONSTITUENTS:
150 g/L IMAZAPYR present as the potassium salt
150 g/L GLYPHOSATE present as the potassium salt

GROUP	B	M	HERBICIDE
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For the control of various annual and perennial weeds in non-crop situations as indicated in the Directions for Use

IMPORTANT: READ THIS LEAFLET BEFORE OPENING OR USING THIS PRODUCT

APVMA Approval No.: 67206/55460

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CROP
culture

DIRECTIONS FOR USE**Restraint:** DO NOT apply by AIRCRAFT

SITUATION	WEED	RATE	CRITICAL COMMENTS
Around agricultural buildings and other farm non-crop situations, commercial, industrial, and public service areas, rights of way and waste land, away from non-target vegetation	Annual ryegrass (<i>Lolium rigidum</i>), Barnyard grass (<i>Echinochloa crus-galli</i>), Blackberry nightshade (<i>Solanum nigrum</i>), Blady grass (<i>Imperata cylindrica</i>), Buckbush (<i>Salsola kali</i>), Deadnettle (<i>Lamium amplexicaule</i>), Feathertop Rhodes grass (<i>Chloris virgata</i>), Fleabane (<i>Conyza canadensis</i>), Hexham scent (<i>Melilotus indicus</i>), Liverseed grass (<i>Urochloa panicoides</i>), London rocket (<i>Sisymbrium irio</i>), Mayne's pest (<i>Verbena tenuisecta</i>), Medics (<i>Medicago spp.</i>), Mintweed (<i>Salvia reflexa</i>), Paterson's curse (<i>Echium plantagineum</i>), Plains grass (<i>Stipa aristiglumis</i>), Prairie grass (<i>Bromus unioloides</i>), Prickly lettuce (<i>Lactuca serriola</i>), Purple top (<i>Verbena bonariensis</i>), Scented top (<i>Capillipedium spp.</i>), Slender celery (<i>Apium leptophyllum</i>), Sowthistle (<i>Sonchus oleraceus</i>), St Barnaby's thistle (<i>Centaurea solstitialis</i>), Summer grasses (<i>Digitaria spp.</i>), Thornapples (<i>Datura spp.</i>), Turnip weed (<i>Rapistrum rugosum</i>), Variegated thistle (<i>Silybum marianum</i>), Vasey grass (<i>Paspalum urvillei</i>), Warrego grass (<i>Paspalidium jubiflorum</i>), Wild oats (<i>Avena spp.</i>), Wild turnip (<i>Brassica tournefortii</i>), Wireweed (<i>Polygonum aviculare</i>)	7 L/ha Pre- or post-emergence application	Medium Volume: 7 L Armoury Herbicide should be applied using spray volumes ranging between 50 and 200 L/ha. High Volume: Apply sufficient spray to wet the surfaces visibly without producing runoff. Measure how much spray is required to cover 10 metre x 10 metre. Add Armoury Herbicide at the rate of 70 mL in this measured volume.
	Annual phalaris (<i>Phalaris minor</i>), Barley grass (<i>Hordeum leporinum</i>), Brome grass (<i>Bromus spp.</i>), Carpet grass (<i>Axonopus affinis</i>), Capeweed (<i>Arctotheca calendula</i>), Chickweed (<i>Stellaria media</i>), Cobbler's pegs (<i>Bidens pilosa</i>), Cocksfoot (<i>Dactylis glomerata</i>), Fumitory (<i>Fumaria spp.</i>), Ground cherry (<i>Physalis ixocarpa</i>), Lesser swinecress (<i>Coronopus didymus</i>), Paradoxa grass (<i>Phalaris paradoxa</i>), Pigweed (<i>Portulaca oleracea</i>), Saffron thistle (<i>Carthamus lanatus</i>), Silver grass (<i>Vulpia spp.</i>), Sub clover (<i>Trifolium subterranean</i>), Spear thistle (<i>Cirsium vulgare</i>), Spiny burrgrass (<i>Cenchrus incertus</i>), Spiny emex (<i>Emex australis</i>), Winter grass (<i>Poa annua</i>), Yorkshire fog (<i>Holcus lanatus</i>)	7 L/ha Post-emergence application only	
	Bokhara clover (<i>Melilotus albus</i>), Bracken [suppression only] (<i>Pteridium esculentum</i>), Capeweed (<i>Arctotheca calendula</i>), Couch (<i>Cynodon dactylon</i>), Docks (<i>Rumex spp.</i>), Johnson grass (<i>Sorghum halepense</i>), Panics [suppression only] (<i>Panicum spp.</i>), Paspalum (<i>Paspalum dilatatum</i>), Queensland bluegrass (<i>Dichanthium sericeum</i>), Stinging nettle (<i>Urtica incisa</i>)	10 L/ha Pre- or post-emergence application	Medium Volume: 10 L Armoury Herbicide should be applied using spray volumes ranging between 50 and 200 L/ha. High Volume: Apply sufficient spray to wet the surfaces visibly without producing runoff. Measure how much spray is required to cover 10 metre x 10 metre. Add Armoury Herbicide at the rate of 100 mL in this measured volume.

SITUATION	WEED	RATE	CRITICAL COMMENTS
Irrigation channels – Only supply channels and tail drains which are lockable or which lead to recirculation dams or settling ponds	Barnyard grass (<i>Echinochloa crus-galli</i>), Bathurst burr (<i>Xanthium spinosum</i>), Bladder Ketmia (<i>Hibiscus trionum</i>), Brown beetle grass (<i>Diplachne fusca</i>), California burr (<i>Xanthium orientale</i>), Caltrop (<i>Tribulus terrestris</i>), Couch grass (<i>Cynodon dactylon</i>), Cumbungi (<i>Typha spp.</i>), Gooseberry (<i>Physalis viscosa</i>), Johnson grass (<i>Sorghum halepense</i>), Liverseed grass (<i>Urochloa panicoides</i>), Mintweed (<i>Salvia reflexa</i>), Noogoora burr (<i>Xanthium pungens</i>), Paspalum (<i>Paspalum spp.</i>), Pumpkin vine (<i>Operculina brownii</i>), Rosella (<i>Hibiscus heterophyllous</i>), Sesbania pea (<i>Sesbania brachycarpa</i>), Sow thistle (<i>Sonchus arvensis</i>), Spider grass (<i>Brachyachne convergens</i>), Summer grass (<i>Digitaria ciliaris</i>), Thornapple (<i>Datura spp.</i>), Turnip weed (<i>Rapistrum rugosum</i>), Volunteer cereals, Camel melon (<i>Citrullus lanatus</i>), Wireweed (<i>Polygonum aviculare</i>)	5 L/ha Pre- or post-emergence application	Apply during the non-crop season and when the channel is not in use. Drain channels prior to treatment. Applications in early autumn (March) to channels with minimal weed growth will give best performance. Armoury Herbicide should NOT be applied more than once per annum to the same channel. Apply only to irrigation delivery and recirculation channels which are lockable or which may be flushed to a recirculation dam or settling pond Apply only to exposed irrigation channels. DO NOT apply to water. DO NOT apply in areas where soil may be moved into the field either through cultivation or water movement. DO NOT apply to irrigation channels in situations where there is a risk of soil or silt movement or water run-off leading to Armoury Herbicide entering irrigation water. DO NOT apply Armoury Herbicide to flooded or saturated soil. If the entire (empty) channel surface is to be treated, delay reuse of the channel for as long as possible (at least 6 weeks) for Armoury Herbicide to adsorb to soil particles. Then: If the channel is lockable , fill it with water and leave undisturbed for four days before releasing the water and allowing irrigation water to flow through the channel; or If the system includes a recirculation dam or settling pond , flush with water, returning flushing water to a settling pond, before allowing irrigation water to flow through the channel. DO NOT apply where flushing water cannot be disposed of safely on-farm. Water from the initial flushing of treated channels must be retained on-farm. To avoid the risk of drift damage, application should NOT be made to channel banks at a time when susceptible crops are in the direct vicinity. Applications should NOT be undertaken when wind is blowing towards crops. For boom sprays, apply in 50 to 200 L water/ha. For high volume e.g. hand guns, measure how much spray volume is required to cover 10 metre x 10 metre and add Armoury Herbicide at the rate of 50 mL in this measured volume. Apply to wet surfaces visibly, without producing run-off. REFER TO 'PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS' SECTION OF LABEL.
	Annual Ryegrass (<i>Lolium rigidum</i>), Amaranth (<i>Amaranthus spp.</i>), Barley grass (<i>Hordeum leporinum</i>), Capeweed (<i>Arctotheca calendula</i>), Cobbler's pegs (<i>Bidens pilosa</i>), Deadnettle (<i>Lamium amplexicaule</i>), Fumitory (<i>Fumaria spp.</i>), Ground cherry (<i>Physalis ixocarpa</i>), Lesser swinecress (<i>Coronopus didymus</i>), Paradoxa grass (<i>Phalaris paradoxa</i>), Paterson's Curse (<i>Echium plantagineum</i>), Pigweed (<i>Portulaca oleracea</i>), Saffron thistle (<i>Carthamus lanatus</i>), Silver grass (<i>Vulpia spp.</i>), Spear thistle (<i>Cirsium vulgare</i>), Spiny emex (<i>Emex australis</i>), Variegated thistle (<i>Silybum marianum</i>)	5 L/ha Post-emergence application only	

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

WITHHOLDING PERIOD

Do not graze or cut for stock feed, vegetation which has been treated with Armoury Herbicide for 7 weeks.

GENERAL INSTRUCTIONS

Crop Culture Armoury Herbicide (hereinafter 'Armoury Herbicide') is an aqueous formulation of two active constituents, which will kill a range of standing weeds and emerging seedlings. It stops growth rapidly, although symptoms may take over 30 days to develop. Affected plants are discoloured and often growth is distorted.

The active material in Armoury is rapidly absorbed through foliage and translocated throughout plants. The active ingredient providing residual control (imazapyr) is also rapidly absorbed through roots, and translocated throughout plants.

For pre-emergence control, rain or irrigation after spraying is required to activate Armoury Herbicide. Where indicated in the 'Rate' column, 'Pre- or post- emergence application', foliage treatments will provide pre-emergence control as the active material is released to the soil following plant decay. Application should give 6 months effective weed control. Residual control will be reduced by denser standing weed growth and higher amounts of ground cover.

RESISTANT WEEDS WARNING

GROUP	B	M	HERBICIDE
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Armoury Herbicide is a member of the imidazolinone and glycine groups of herbicides. Armoury Herbicide has the inhibition of acetolactate synthase (ALS) and inhibition of EPSP modes of action. For weed resistance management, Armoury Herbicide is a Group B and M herbicide. Some naturally occurring weed biotypes resistant to Armoury Herbicide and other Group B and M herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by Armoury Herbicide or other Group B and M herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Crop Culture Pty Ltd accepts no liability for any losses that may result from the failure of Armoury Herbicide to control resistant weeds.

APPLICATION

Faster control of standing weeds will result if growing conditions are favourable at and after application. Rainfall within two hours of the spray mixture drying on leaves may result in reduced weed control.

SPRAYING INSTRUCTIONS

For medium volume spraying, apply through a spray boom calibrated to ensure even coverage. Use spray nozzles suitable to prevent spray drift onto surrounding non-target vegetation.

For high volume application, use a handgun or hand-held spray applicator, not carried on the back, to apply sufficient spray to wet the surface visibly without producing run-off.

MIXING

Pour the required amount of Armoury Herbicide into a spray container, which already holds the total amount of water required. Mix thoroughly. If Armoury Herbicide is added during filling, foaming may occur. If excessive foaming is a problem, add a suitable antifoaming agent. Consult your distributor for specific information.

The product is corrosive to mild steel. Use ONLY stainless steel, fibreglass, plastic or plastic-lined containers for mixing, storage and application.

EQUIPMENT CLEAN UP

Thoroughly flush all spray equipment with water following the use of Armoury Herbicide and before use with other products.

COMPATIBILITY

For faster knockdown of weeds, certain other herbicides may be mixed with Armoury Herbicide.

Armoury Herbicide is compatible with glyphosate- based products.

Bipyridyl herbicides (e.g. paraquat) are NOT compatible with Armoury Herbicide. Mixtures of this type will result in poor weed control.

PRECAUTION

Do not apply using spraying equipment carried on the back of the user.

RE-ENTRY PERIOD

Do not enter treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrists (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

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, or non-target aquatic areas. DO NOT apply on or near non-target trees or other plants or in areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. DO NOT apply where run-off water may flow onto agricultural land or other non-target vegetated areas. Dispose of washings away from non-target plants and their roots.

PROTECTION OF LIVESTOCK

Low hazard to bees - may be applied to plants at any time.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

STORAGE AND DISPOSAL**5 L, 10 L, 20 L, 200 L**

Store in the closed, original containers in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycle 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 disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in accordance with relevant Local, State or Territory government regulations. Do not burn empty containers or product.

For refillable containers (110 L)

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

May irritate the eyes and skin. Avoid contact with eyes and skin. When opening container and preparing the product for use and using prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves.

In addition, if applying by low-pressure hand wand wear cotton overalls, over normal clothing, buttoned to the neck and wrist and elbow-length chemical resistant gloves.

Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

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

MATERIAL SAFETY DATA SHEET

For further information refer to the Material Safety Data Sheet (MSDS), which is available from the supplier or from the manufacturer's website: www.cropculture.com.au

CONDITIONS OF SALE

The use of Crop Culture Armoury Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Crop Culture 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 Crop Culture Pty Ltd accepts with no responsibility for any consequences whatsoever resulting from the use of this product.