

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

# Rotary Max<sup>®</sup>

## Herbicide

ACTIVE CONSTITUENT: **240 g/L IMAZAPYR**

present as ISOPROPYLAMINE SALT

**GROUP B HERBICIDE**

For the control of various annual and perennial weeds in non-crop situations as per the Directions for Use table



**ADAMA**

Formulation type  
Soluble  
Concentrate

**SL**

adama.com

CONTENTS: 1 L, 5 L, 10 L, 20 L

### DIRECTIONS FOR USE

**Restraint:** DO NOT apply by AIRCRAFT as spray drift may cause damage to desirable surrounding species.

SITUATION	WEED	STATES	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 desirable vegetation.	Annual Ryegrass ( <i>Lolium rigidum</i> ), Barnyard Grass ( <i>Echinochloa crus-galli</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</i> spp.), Mintweed ( <i>Salvia reflexa</i> ), Blackberry Nightshade ( <i>Solanum nigrum</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</i> spp.), Sedges ( <i>Cyperus</i> spp.), Slender Celery ( <i>Apium leptophyllum</i> ), Sowthistle ( <i>Sonchus oleraceus</i> ), St Barnaby's Thistle ( <i>Centaurea solstitialis</i> ), Summer Grasses ( <i>Digitaria</i> spp.), Thornapples ( <i>Datura</i> spp.), 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</i> spp.), Wild Turnip ( <i>Brassica tournefortii</i> ), Wireweed ( <i>Polygonum aviculare</i> )	All States	4.2 L/ha	Applications can be made pre- or post-emergence. Post-emergence applications also provide pre-emergence control. <b>Medium Volume:</b> 4.2 L ROTARY MAX <sup>®</sup> should be applied using spray volumes ranging between 50 and 200 L/ha. <b>High Volume:</b> Apply sufficient spray to wet the surfaces visibly without producing run-off. Measure how much spray is required to cover 10 m x 10 m. Add ROTARY MAX <sup>®</sup> at the rate of 40 mL in this measured volume. For pre-emergence control, rain or irrigation after spraying is required to activate ROTARY MAX <sup>®</sup> . Residual control will be reduced by denser standing weed growth and higher amounts of ground cover.

SITUATION	WEED	STATES	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 desirable vegetation – <i>continued</i>	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</i> spp.), Johnson Grass ( <i>Sorghum halepense</i> ), Panics (suppression only) ( <i>Panicum</i> spp.), Paspalum ( <i>Paspalum dilatatum</i> ), Queensland Bluegrass ( <i>Dichanthium sericeum</i> ), Stinging Nettle ( <i>Urtica incisa</i> )	All States	6.3 L/ha	Applications can be made pre- or post-emergence. Post-emergence applications also provide pre-emergence control. <b>Medium Volume:</b> 6.3 L ROTARY MAX® should be applied using spray volumes ranging between 50 and 200 L/ha. <b>High Volume:</b> Apply sufficient spray to wet the surfaces visibly without producing run-off. Measure how much spray is required to cover 10 m x 10 m. Add ROTARY MAX® at the rate of 60 mL in this measured volume. For pre-emergence control, rain or irrigation after spraying is required to activate ROTARY MAX®. Residual control will be reduced by denser standing weed growth and higher amounts of ground cover.
	Rubber Vine ( <i>Cryptostegia grandiflora</i> )	Qld only	4.2 mL/L water	<b>Post-emergence application</b> Apply sufficient spray to wet the surface visibly to the point of run-off. For effective control, apply when the plant is actively growing and not stressed, yellowing or bearing pods. Flowering is a good indication of the best time for application. Use high volume application as detailed in the General Instructions section.
	Thunbergia ( <i>Thunbergia</i> spp.)		7.8 mL/L water	<b>Post-emergence application</b> Apply sufficient spray to wet the surface visibly to the point of run-off. For effective control, apply when the plant is actively growing. Use high volume application as detailed in the General Instructions section.
Irrigation channels – supply channels and tail drains leading to recirculation dams only	Barnyard Grass ( <i>Echinochloa crus-galli</i> ), Bathurst Burr ( <i>Xanthium spinosum</i> ), Bellvine ( <i>Ipomoea plebia</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</i> spp.), 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> ), Nutmeg ( <i>Cyperus rotundus</i> ), <i>Paspalum</i> spp., 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</i> spp.), Turnip Weed ( <i>Rapistrum rugosum</i> ), Volunteer Cereals, Watermelon ( <i>Citrullus lanatus</i> ), Wireweed ( <i>Polygonum aviculare</i> )	All States	3.1 L/ha	Apply during the non-crop season and when the channel is not in use. Drain channels to be treated prior to use. Apply only to irrigation delivery and recirculation channels which may be flushed to a recirculation dam or settling pond. 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. Applications may be made pre or post-emergence. Post-emergence applications also provide pre-emergence control. For boom sprays, apply in 50 - 200 L water/ha. For high volume e.g. hand guns, measure how much spray volume is required to cover 10 x 10 m and add ROTARY MAX® at the rate of 30 mL in this measured volume. Apply to wet surfaces visibly, without producing run-off. Apply only to exposed irrigation channels. DO NOT apply to water. DO NOT apply to irrigation channels in situations where there is a risk of soil or silt movement or water run-off leading to ROTARY MAX® entering irrigation water. DO NOT apply ROTARY MAX® 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 ROTARY MAX® to absorb to soil particles. Then flush with water, returning flushing water to a settling pond, before allowing irrigation water to flow through the channel. 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. Applications in early Autumn (March) to channels with minimum weed growth will give best performance. Application should give 6 months effective weed control. ROTARY MAX® should NOT be applied more than once per annum to the same channel. REFER TO "PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS" SECTION OF LABEL

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

## GENERAL INSTRUCTIONS

ROTARY MAX<sup>®</sup> is an aqueous solution of herbicide 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 ROTARY MAX<sup>®</sup> is rapidly absorbed through foliage and roots, and translocated throughout plants. Foliage treatments will provide pre-emergence control as the active material is released to the soil following plant decay. Residual control of weeds, for which the lower rate of ROTARY MAX<sup>®</sup> is recommended, will increase when the higher rate is used. For pre-emergence control, rain or irrigation after spraying is required to activate ROTARY MAX<sup>®</sup>. Residual control will be reduced by denser standing weed growth and higher amounts of ground cover.

## 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. For pre-emergence control, rain or irrigation after spraying is required to activate ROTARY MAX<sup>®</sup>. Residual control will be reduced by denser standing weed growth and higher amounts of ground cover.

## 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 desirable vegetation. For high volume application, use a hand gun or knapsack to apply sufficient spray to wet the surface visibly without producing run-off.

## MIXING

Pour the required amount of ROTARY MAX<sup>®</sup> into a spray container which already holds the total amount of water required. Mix thoroughly. If ROTARY MAX<sup>®</sup> is added during filling, foaming may occur. If excessive foaming is a problem, add a suitable antifoaming agent. Consult your distributor for specific information. ROTARY MAX<sup>®</sup> may be applied in hard or soft water. The product is corrosive to mild steel. Use ONLY stainless steel, fibreglass, plastic or plastic lined containers for mixing, storage and application.

## COMPATIBILITY

For faster knockdown of weeds, certain other herbicides may be mixed with ROTARY MAX<sup>®</sup>. Bipyridyl herbicides (e.g. paraquat) are NOT compatible with ROTARY MAX<sup>®</sup>. Mixtures of this type will result in poor weed control.

## RESISTANT WEEDS WARNING

ROTARY MAX<sup>®</sup> Herbicide is a member of the imidazolinone group of herbicides. ROTARY MAX<sup>®</sup> has the inhibition of acetolactate synthase (ALS) mode of action. For weed resistance management, ROTARY MAX<sup>®</sup> is a Group B herbicide. Some naturally-occurring weed biotypes resistant to ROTARY MAX<sup>®</sup> and other Group B 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 ROTARY MAX<sup>®</sup> or other Group B herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Adama Australia accepts no liability for any losses that may result from the failure of ROTARY MAX<sup>®</sup> to control resistant weeds.

## 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 desirable trees or other plants, or on 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 desirable vegetated areas. Dispose of washings away from desirable plants and their roots.

## PROTECTION OF LIVESTOCK

Low hazard to bees – may be applied to plants at any time. DO NOT graze or cut for stock feed, vegetation which has been treated with ROTARY MAX<sup>®</sup>.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

## STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN. Store in the closed, original container in a dry, cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or a 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. Empty containers and product should NOT be burnt.

## SAFETY DIRECTIONS

Avoid inhaling spray mist. Will irritate the eyes and skin. Avoid contact with eyes and skin. When preparing and using the prepared spray, wear rubber gloves. Wash hands after use. After each days use wash rubber gloves.

## FIRST AID

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

## SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for ROTARY MAX<sup>®</sup> is available from adama.com or call Customer Service on 1800 423 262.

**CONDITIONS OF SALE:** The use of ROTARY MAX<sup>®</sup> Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia 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 Adama Australia accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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## NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE.

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