

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

Rygel

Clethodim

Herbicide

Active Constituent: 240g/L CLETHODIM

For the control of certain grass weeds in beetroot, cabbage, canola, celery, chickpeas, cotton, faba beans, field peas, forestry, lentils, lettuce, lupins, lettuce, mung beans, non-bearing fruit trees, onions, ornamentals, peanuts, potatoes and soybeans.

GROUP	A	HERBICIDE
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APVMA Approval No: 60774/0606

Pack Size: 10 L

GENERAL INSTRUCTIONS

Resistant Weeds Warning

Rygel Clethodim Herbicide is a member of the cyclohexanedione group of herbicides. Rygel Clethodim has the inhibition of acetyl CoA carboxylase mode of action. For weed resistance management, Rygel Clethodim is a Group A herbicide. Some naturally occurring weed biotypes resistant to Rygel Clethodim and other Group A 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 Rygel Clethodim or other Group A herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Rygel Australia Pty Ltd accepts no liability for any losses that may result from the failure of Rygel Clethodim Herbicide to control resistant weeds.

CLEANING SPRAY EQUIPMENT

Before using Rygel Clethodim

Ensure that the recommended clean-out procedures for the previous product (particularly sulfonylurea herbicides) sprayed with the equipment was done properly.

After using Rygel Clethodim

Empty the tank and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean filters in the tank, pump line and nozzles. Use of a household detergent will aid in the cleaning the equipment. Add detergent to the part-filled spray tank and thoroughly circulate through pumps, hoses and nozzles. Drain the system and thoroughly rinse twice with clean water. Rinse water should be discharged onto a designated disposal area, or if this is unavailable, onto unused land away from desirable plants and water sources.

MIXING

To ensure even mixing, half-fill the spray tank with clean water, add the required amount of Rygel Clethodim. Add spray additive and agitate thoroughly, then add the remainder of the water. Agitate again before spraying commences.

APPLICATION

Ground Application

Rygel Clethodim Herbicide should be applied with calibrated spray equipment producing a median droplet range of 200 to 300 micron VMD. Apply in a minimum of 50 litres of water per hectare. Use 150 L/ha when spraying dense populations.

Aerial Application

Rygel Clethodim Herbicide can be applied through aircraft fitted with boom or Micronair equipment. A spray volume of 20 to 30 L/ha is recommended and equipment should be adjusted to deliver droplets in the range of 200-250 micron (VMD). Best results will be obtained when aerial applications are made in a light crosswind. Applications should not be made during temperature inversions or in conditions of very low relative humidity. Care should be taken to avoid drift damage to adjoining grass crops.

COMPATIBILITY

Grass Herbicides: Rygel Clethodim Herbicide is compatible with the following grass herbicides: Targa*, Fusilade*, Verdict*, Sertin* and Correct* (refer to the Bayer Correct label for detail on adjuvant recommendations for that product).
NOTE: In all situations where Rygel Clethodim Herbicide is mixed with another grass herbicide, Rygel Clethodim Herbicide should be used at the full label rate specified for the target weed species.
Insecticides: Rygel Clethodim Herbicide may be applied in tank mixtures with the following products: alpha-cypermethrin and omethoate. Rygel Clethodim Herbicide should not be applied in tank mixtures with diflufenican, bentazone or acifluorfen. Apply as separate applications.

For information on compatibility of products not listed, please refer to Rygel Australia Pty Ltd.

CAUTION

Ornamentals and Trees – While Rygel Clethodim Herbicide is generally selective to broadleaf plants (i.e. it is active against grasses), tests should always be made on a small number of plants not previously tested.

Do NOT use on Gymnosperms (pines, conifers etc.) unless a prior test has been conducted to check safety on the relevant species.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply Rygel Clethodim Herbicide if wind is likely to cause drift onto susceptible crops/plants, cropping lands or pastures. Rygel Clethodim Herbicide should not be applied through misting equipment or any other method likely to cause excessive drift. Care should be taken to avoid damage to adjoining native grasses or grass crops.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Protect from frost.

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 recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm 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.

SAFETY DIRECTIONS

Harmful if swallowed. Will irritate the eyes and skin. When preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves and face shield or goggles. If product in eyes, wash it out immediately with water. 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 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. If swallowed, do not induce vomiting. Give a glass of water.

MSDS

Additional information is listed in the Material Safety Data Sheet, which is available from the supplier.

CONDITIONS OF SALE

The use of Rygel Clethodim Herbicide being beyond the control of the manufacturer, no warranty

expressed or implied is given by Rygel Australia 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 Rygel Australia Pty Ltd accepts with no responsibility for any consequences whatsoever resulting from the use of this product.

In an Emergency Dial 000 Police or Fire Brigade

DIRECTIONS FOR USE

RESTRAINTS:

DO NOT apply without the addition of an adjuvant.

DO NOT apply to plants that are stressed by moisture or temperature extremes.

DO NOT apply if rain is expected within a one hour of application.

DO NOT apply Rygel Clethodim Herbicide more than once to any one crop.

Crop	Crop Growth Stage	Weeds Controlled	Rate mL/ha	Stage of Weed Growth	State	Critical Comments			
Canola, Chickpeas, Faba beans, Field peas, Lentils [@] , Lupins [#]	Canola: DO NOT APPLY after flower buds become visible (green buds) Chickpeas: DO NOT APPLY beyond full flowering Faba beans: DO NOT APPLY beyond full flowering Field peas: DO NOT APPLY beyond full flowering Lentils: Apply up to 7 nodes / early branching stage of crop growth Lupins: DO NOT APPLY after 80% of flowers have opened	Annual Ryegrass (<i>Lolium rigidum</i>) Annual Phalaris (<i>Phalaris minor</i>)	150 to 250	2 leaf to fully tillered	Qld, NSW, ACT, Vic, Tas, WA only	Always apply with Kwickin at 1L/100L spray volume. The lower doses will provide effective control if applied under ideal conditions to weeds that are smaller, actively growing and free from temperature or water stress. See COMPATIBILITY AND CAUTIONS in GENERAL INSTRUCTIONS for mixture recommendations with insecticides, fungicides and other herbicides.			
		Barley Grass (<i>Hordeum leporinum</i>) Brome grass (<i>Bromus diandrus</i>) Wild Oats (<i>Avena spp.</i>)	175 to 250						
		Volunteer Wheat (<i>Triticum aestivum</i>) Volunteer Oats (<i>Avena sativa</i>)	200* to 250 * (175 to 250 in WA only)						
		Volunteer Barley (<i>Hordeum vulgare</i>)	250						
		Silver grass (<i>Vulpia bromoides</i>) – suppression only	250 to 500						
		Paradoxa grass, (<i>Phalaris paradoxa</i>)	250 - 375 375				2 to 5 leaf stage 5-leaf to fully tillered	Qld, NSW, ACT only	# NOT QLD.
Cotton (Qld, NSW and NT only), peanuts, Mung Beans, Soybeans	Cotton: DO NOT APPLY after full flowering (mid bloom) Peanuts: DO NOT APPLY after the pod fill stage of crop development Mung beans: DO NOT APPLY after first flower buds are visible Soybeans: DO NOT APPLY after first flowers are visible	Barnyard grass (<i>Echinochloa spp.</i>) Blown grass (<i>Agrostis aveacea</i>) Crowfoot grass (<i>Eleusine indica</i>) Feathertop Rhodes grass (<i>Chloris virgata</i>) Liverseed grass (<i>Urochloa panicoides</i>) Red Spangletop grass (<i>Leptochloa filiformis</i>) Seedling Johnson grass (<i>Sorghum halepense</i>) Summer grass (<i>Digitaria spp.</i>) Volunteer Sorghum (<i>Sorghum spp.</i>)	250 to 375 375	2 to 5 leaf stage 5-leaf to fully tillered	Qld, NSW, ACT, Vic, WA, NT only	Always apply with Kwickin at 1L/100L spray volume. The lower doses will provide effective control if applied under ideal conditions to weeds that are smaller, actively growing and free from temperature or water stress. See COMPATIBILITY AND CAUTIONS in GENERAL INSTRUCTIONS for mixture recommendations with insecticides, fungicides and other herbicides.			

Crop	Weeds Controlled	Rate mL/ha	Stage of Weed Growth	State	Critical Comments
Beetroot, Cabbage, Celery, Lettuce, Potatoes, Onions	Barnyard grass (<i>Echinochloa spp.</i>) Blown grass (<i>Agrostis aveacea</i>) Crowsfoot grass (<i>Eleusine indica</i>) Feathertop Rhodes grass (<i>Chloris virgata</i>) Liverseed grass (<i>Urochloa panicoides</i>) Paradoxa grass, (<i>Phalaris paradoxa</i>) Red Spangletop grass (<i>Leptochloa filiformis</i>) Seedling Johnson grass (<i>Sorghum halepense</i>) Summer grass (<i>Digitaria spp.</i>) Volunteer Sorghum (<i>Sorghum spp.</i>)	250 to 375 375	2 to 5 leaf stage 5-leaf to fully tillered	All states	Always apply with Kwickin at 1L/100L spray volume. The lower doses will provide effective control if applied under ideal conditions to weeds that are smaller, actively growing and free from temperature or water stress. Use a spray volume of 150L/ha when spraying dense grass populations.
	Annual Ryegrass (<i>Lolium rigidum</i>) Annual Phalaris (<i>Phalaris minor</i>)	150 to 250	2 leaf to fully tillered	All states	Always apply with Kwickin at 1L/100L spray volume. The lower doses will provide effective control if applied under ideal conditions to weeds that are smaller, actively growing and free from temperature or water stress.
	Barley Grass (<i>Hordeum leporinum</i>) Brome grass (<i>Bromus diandrus</i>) Wild Oats (<i>Avena spp.</i>)	175 to 250			Use a spray volume of 150L/ha when spraying dense grass populations.
	Volunteer Wheat (<i>Triticum aestivum</i>) Volunteer Oats (<i>Avena sativa</i>)	200* to 250 * (175 to 250 in WA only)			
	Volunteer Barley (<i>Hordeum vulgare</i>)	250			
	Silver grass (<i>Vulpia bromoides</i>) – suppression only (not Qld, WA)	250 to 500			
	Winter grass (<i>Poa annua</i>)	500			
	Forestry, non-bearing fruit trees and ornamentals	Annual Ryegrass (<i>Lolium rigidum</i>) Annual Phalaris (<i>Phalaris minor</i>) Barley Grass (<i>Hordeum leporinum</i>) Barnyard grass (<i>Echinochloa spp.</i>) Blown grass (<i>Agrostis aveacea</i>) Brome grass (<i>Bromus diandrus</i>)	500	2 leaf to fully tillered	All states

Crop	Weeds Controlled	Rate mL/ha	Stage of Weed Growth	State	Critical Comments
	Crowsfoot grass (<i>Eleusine indica</i>) Feathertop Rhodes grass (<i>Chloris virgata</i>) Liverseed grass (<i>Urochloa panicoides</i>) Paradoxa grass, (<i>Phalaris paradoxa</i>) Red Sprangletop grass (<i>Leptochloa filiformis</i>) Seedling Johnson grass (<i>Sorghum halepense</i>) Silver grass (<i>Vulpia bromoides</i>) – suppression only (not Qld, WA) Summer grass (<i>Digitaria spp.</i>) Volunteer Barley (<i>Hordeum vulgare</i>) Volunteer Oats (<i>Avena sativa</i>) Volunteer Sorghum (<i>Sorghum spp.</i>) Volunteer Wheat (<i>Triticum aestivum</i>) Winter grass (<i>Poa annua</i>)				See COMPATIBILITY AND CAUTIONS in GENERAL INSTRUCTIONS for particular species.

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

WITHHOLDING PERIODS:

HARVEST:

CANOLA, CHICKPEAS,
COTTON, FAB BEANS,
FIELD PEAS, LENTILS,
LUPINS, MUNG BEANS,
PEANUTS, SOYBEANS
FORESTRY
BEETROOT, CABBAGE
ONIONS
LETTUCE, POTATOES
CELERY

NOT REQUIRED WHEN USED AS DIRECTED

NOT REQUIRED WHEN USED AS DIRECTED

DO NOT APPLY LATER THAN 7 DAYS BEFORE HARVEST

DO NOT APPLY LATER THAN 14 DAYS BEFORE HARVEST

DO NOT APPLY LATER THAN 4 WEEKS BEFORE HARVEST

DO NOT APPLY LATER THAN 9 WEEKS BEFORE HARVEST

GRAZING:

CANOLA, CHICKPEAS,
FABA BEANS, FIELD PEAS,
LENTILS, LUPINS, MUNG
BEANS, SOYBEANS
COTTON

DO NOT GRAZE OR CUT FOR STOCK-FEED FOR 21 DAYS AFTER APPLICATION

DO NOT GRAZE OR CUT COTTON FORAGE OR STUBBLE FOR STOCK-FEED