

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

eChem

Clethodim 240

Herbicide

ACTIVE CONSTITUENT: 240 g/L CLETHODIM
SOLVENT: 606 g/L LIQUID HYDROCARBON

GROUP	A	HERBICIDE
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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 as per the Directions for Use table in this leaflet.

READ THIS LEAFLET BEFORE USING THIS PRODUCT

APVMA Approval No. 68708/58935

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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 eChem Clethodim 240 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 DC-Trate at 2 L/ha or Hasten at 1 L/ha or Kwickin at 1 L/100 L or Uptake at 500 mL/100 L 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	2 to 5 leaf stage 5-leaf to fully tillered			NSW, ACT, Vic, Tas only	@ Application up to 7-node/early-branching crop growth stage only. # NOT Queensland				
		Silver grass (<i>Vulpia bromoides</i>) – suppression only	250 to 500									
		Paradoxa grass (<i>Phalaris paradoxa</i>)	250 - 375 375	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>) Crowsfoot 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 DC-Trate at 2 L/ha or Hasten at 1 L/ha or Kwickin at 1 L/100 L or Uptake at 500 mL/100 L 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 DC-Trate at 2 L/ha or Hasten at 1 L/ha or Kwicken at 1 L/100 L or Uptake at 500 mL/100 L 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 150 L/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 DC-Trate at 2 L/ha or Hasten at 1 L/ha or Kwicken at 1 L/100 L or Uptake at 500 mL/100 L spray volume.
	Barley Grass (<i>Hordeum leporinum</i>) Brome grass (<i>Bromus diandrus</i>) Wild Oats (<i>Avena spp.</i>)	175 to 250	2 leaf to fully tillered	All states	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 150 L/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	2 leaf to fully tillered	All states	
	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>)				test has been conducted to check safety on the relevant species. 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,
faba beans, field peas,
lentils, lupins, mung
beans, peanuts, soybeans

NOT REQUIRED WHEN USED AS DIRECTED

Forestry

NOT REQUIRED WHEN USED AS DIRECTED

Beetroot, cabbage

DO NOT APPLY LATER THAN 7 DAYS BEFORE HARVEST

Onions

DO NOT APPLY LATER THAN 14 DAYS BEFORE HARVEST

Lettuce, potatoes

DO NOT APPLY LATER THAN 4 WEEKS BEFORE HARVEST

Celery

DO NOT APPLY LATER THAN 9 WEEKS BEFORE HARVEST

GRAZING:

Canola, chickpeas, faba
beans, field peas, lentils,
lupins, mung beans,
soybeans

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

Cotton

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

GENERAL INSTRUCTIONS

Resistant Weeds Warning

GROUP	A	HERBICIDE
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eChem Clethodim 240 Herbicide is a member of the cyclohexanedione group of herbicides. eChem Clethodim 240 Herbicide has the inhibition of acetyl CoA carboxylase mode of action. For weed resistance management, eChem Clethodim 240 Herbicide is a Group A herbicide. Some naturally occurring weed biotypes resistant to eChem Clethodim 240 Herbicide 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 eChem Clethodim 240 Herbicide or other Group A herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, eChem (Australia) Pty Ltd accepts no liability for any losses that may result from the failure of eChem Clethodim 240 Herbicide to control resistant weeds.

CLEANING SPRAY EQUIPMENT

Before using eChem Clethodim 240 Herbicide

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

After using eChem Clethodim 240 Herbicide

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 eChem Clethodim 240 Herbicide. Add spray additive and agitate thoroughly, then add the remainder of the water. Agitate again before spraying commences.

APPLICATION

Ground Application

eChem Clethodim 240 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

eChem Clethodim 240 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: eChem Clethodim 240 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 eChem Clethodim 240 Herbicide is mixed with another grass herbicide, eChem Clethodim 240 Herbicide should be used at the full label rate specified for the target weed species.

Insecticides: eChem Clethodim 240 Herbicide may be applied in tank mixtures with the following products: alpha-cypermethrin and omethoate.

eChem Clethodim 240 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 eChem (Australia) Pty Ltd.

CAUTION

Ornamentals and Trees – While eChem Clethodim 240 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 eChem Clethodim 240 Herbicide if wind is likely to cause drift onto susceptible crops/plants, cropping lands or pastures. eChem Clethodim 240 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 deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500mm 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.

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.

MATERIAL SAFETY DATA SHEET

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

CONDITIONS OF SALE

eChem (Australia) Pty Ltd. accepts responsibility for the consistent quality of the product however since the use and application of the product is beyond control, the company accepts no responsibility whatsoever for any loss, damage or other result following the use of the product whether used in accordance with directions or not; other than those mandatorily imposed by statutes, the liability is limited to the replacement of the goods and is conditional upon a claim made in writing and, where necessary, a sufficient part of the goods being returned for proper examination by the company within thirty days of sale.

[†]Other registered trademarks