



Product Name: RAINBOW CLETHODIM 360 HERBICIDE
APVMA Approval No: 68469/113236

Label Name:	RAINBOW CLETHODIM 360 HERBICIDE
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Signal Headings:	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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Constituent Statements:	ACTIVE CONSTITUENT: 360 g/L CLETHODIM SOLVENT: 570 g/L LIQUID HYDROCARBON
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Mode of Action:	GROUP A HERBICIDE
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Statement of Claims:	For the control of certain grass weeds in beetroot, cabbage, canola, celery, cotton, forestry, lettuce, non-bearing fruit trees, onions, ornamentals, peanuts, pulses (including adzuki beans, broad beans, chickpeas, faba beans, field peas, lentils, lupins and mung beans), potatoes, soybeans and pasture legume (lucerne, clover and medic) seed crops (and pastures) according to the Directions for Use table.
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Net Contents:	1000L 100L 110L 200L 20L 5L
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Restrains:	RESTRAINTS: DO NOT apply without the addition of an oil (see GENERAL INSTRUCTIONS). DO NOT apply to plants that are stressed by moisture or temperature extremes. DO NOT apply if rain is expected within one hour of application. DO NOT apply more than once to any one crop.
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Directions for Use:	
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Other Limitations:	
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Withholding Periods:	<p>WITHHOLDING PERIODS</p> <p>HARVEST</p> <p>PASTURE LEGUME (LUCERNE, CLOVER AND MEDIC) SEED CROPS AND PASTURES: NOT REQUIRED WHEN USED AS DIRECTED.</p> <p>CANOLA, COTTON, PEANUTS, PULSES (ADZUKI BEANS, BROAD BEANS, CHICKPEAS, FABA BEANS, FIELD PEAS, LENTILS, LUPINS, AND MUNG BEANS) AND SOYBEANS: NOT REQUIRED WHEN USED AS DIRECTED.</p> <p>FORESTRY: NOT REQUIRED WHEN USED AS DIRECTED.</p> <p>BEETROOT, CABBAGE: DO NOT APPLY LATER THAN 7 DAYS BEFORE HARVEST.</p> <p>ONIONS: DO NOT APPLY LATER THAN 14 DAYS BEFORE HARVEST.</p> <p>LETTUCE, POTATOES: DO NOT APPLY LATER THAN 4 WEEKS BEFORE HARVEST.</p> <p>CELERY: DO NOT APPLY LATER THAN 9 WEEKS BEFORE HARVEST.</p> <p>GRAZING</p> <p>PASTURE LEGUME (LUCERNE, CLOVER AND MEDIC) SEED CROPS AND PASTURES: DO NOT GRAZE OR CUT FOR STOCK FEED FOR 14 DAYS AFTER APPLICATION.</p> <p>CANOLA, PEANUTS, PULSES (ADZUKI BEANS, BROAD BEANS, CHICKPEAS, FABA BEANS, FIELD PEAS, LENTILS, LUPINS, AND MUNG BEANS) AND SOYBEANS: DO NOT GRAZE OR CUT FOR STOCK FEED FOR 21 DAYS AFTER APPLICATION.</p> <p>COTTON: DO NOT GRAZE OR CUT COTTON FORAGE OR STUBBLE FOR STOCK FEED.</p>
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Trade Advice:	
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General Instructions:	
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Resistance Warning:	<p>Rainbow Clethodim 360 Herbicide is a member of the cyclohexanedione group of herbicides. Rainbow Clethodim 360 Herbicide has the inhibition of acetyl coA carboxylase mode of action. For weed resistance management, Rainbow Clethodim 360 Herbicide is a Group A Herbicide. Some naturally-occurring weed biotypes resistant to Rainbow Clethodim 360 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 Rainbow Clethodim 360 Herbicide or other Group A Herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Shandong Rainbow International Co., Ltd accepts no liability for any losses that may result from the failure of Rainbow Clethodim 360 Herbicide to control resistant weeds.</p>
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Precautions:	<p>CAUTION</p> <p>Ornamentals and Trees – While Rainbow Clethodim 360 Herbicide is generally selective to broadleaved plants (i.e. it is active against grasses), tests should always be made on a small number of plants not previously tested.</p> <p>DO NOT use on Gymnosperms (pines, conifers, etc) unless a prior test has been conducted to check safety on the relevant species.</p>
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Protections:	PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS
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DO NOT apply Rainbow Clethodim 360 Herbicide if wind is likely to cause drift onto susceptible crops/plants, cropping lands or pastures. Rainbow Clethodim 360 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 product 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 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 authority is not available, bury the empty packaging 500mm 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. DO NOT burn empty containers or product. For Refillable containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

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 chemical resistant 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, face shield or goggles and contaminated clothing.

First Aid Instructions:

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26; New Zealand 0800 764 766. If swallowed, DO NOT induce vomiting. Give a glass of water.

First Aid Warnings:

DIRECTIONS FOR USE

Crop	Crop Growth Stage	Weeds Controlled	Rate mL/ha	Stage of Weed Growth	State	Critical Comments
Canola	DO NOT apply after flower buds become visible (green buds)	Annual Ryegrass (<i>Lolium rigidum</i>), Annual Phalaris (<i>Phalaris minor</i>)	100 to 333	2-leaf to fully tillered	QLD, NSW, ACT, VIC, TAS, SA, WA only	Always apply with a crop oil. See Adjuvants and Spray Additives for specific instructions. 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>)	116 to 333			
		Volunteer Wheat (<i>Triticum aestivum</i>), Volunteer Oats (<i>Avena sativa</i>)	133 to 333 (116 to 333 in WA only)			
		Silver Grass (<i>Vulpia bromoides</i>) suppression only	166 to 333			
		Paradoxa Grass (<i>Phalaris Paradoxa</i>)	166 to 250 250 - 333	2- to 5-leaf stage 5-leaf to fully tillered	QLD, NSW, ACT on	
Pulse crops (including adzuki beans, broad beans, chickpeas, faba beans, field peas, lentils^ and lupins#). Pasture (1) legume (lucerne, clover and medic) seed crops and pastures (1) (including pastures containing chicory and plantain).	Adzuki beans: DO NOT APPLY after first flower buds are visible. Chickpeas, faba beans, broad beans, field peas: DO NOT APPLY beyond full flowering. Lentils: Apply up to the 7 node/ 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>)	100 to 333	2 leaf to fully tillered	QLD, NSW, ACT, VIC, TAS, SA, WA only	Always apply with a crop oil. See Adjuvants and Spray Additives for specific instructions. 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. ^ Application up to 7-node/early branching crop growth stage only. # NOT QLD (1) See use of Rainbow
		Barley Grass (<i>Hordeum leporinum</i>) Brome grass (<i>Bromus diandrus</i>) Wild Oats (<i>Avena spp.</i>)	116 to 333			
		Volunteer Wheat (<i>Triticum aestivum</i>) Volunteer Oats (<i>Avena sativa</i>)	133* to 333* (116 to 333 in WA only)			
		Volunteer Barley (<i>Hordeum vulgare</i>)	333			
		Silver grass (<i>Vulpia bromoides</i>) – suppression only	166 to 333			

Crop	Crop Growth Stage	Weeds Controlled	Rate mL/ha	Stage of Weed Growth	State	Critical Comments
		Paradoxa grass, (<i>Phalaris paradoxa</i>)	166 - 250 250-333	2 to 5 leaf stage 5-leaf to fully tillered	QLD, NSW, ACT only	Clethodim 360 Herbicide in pastures under General Instructions.
Cotton (Qld, NSW and NT only) Peanuts, Mung beans, Soybeans Pasture legume (lucerne, clover and medic) seed crops and pastures (including pastures containing chicory and plantain).	Cotton: DO NOT APPLY after full flowering (mid bloom). Peanuts: DO NOT APPLY after the pod fill stage of crop development. Mung beans, soybeans: DO NOT APPLY after first flower buds are visible.	Barnyard Grass (<i>Echinochloa</i> spp.), 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 Sprangletop Grass (<i>Leptochloa filiformis</i>), Seedling Johnson Grass (2) (<i>Sorghum halepense</i>), Summer Grass (<i>Digitaria</i> spp.), Volunteer Sorghum (<i>Sorghum</i> spp.)	166 to 250 250-333	2 to 5 leaf stage 5-leaf to fully tillered	QLD, NSW, ACT, VIC, WA, NT only	Always apply with a crop oil. See Adjuvants and Spray Additives for specific instructions. 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. (1) See use of Rainbow Clethodim 360 Herbicide in pastures under General Instructions. (2) Only Johnson Grass seedlings germinating from seed will be controlled. Seedlings that appear later as shoots from underground stems will not be controlled, and more than one application may be required to control emerging shoots. Always apply with a crop oil. See Adjuvants and Spray Additives for specific instructions.

Crop	Weeds Controlled	Rate mL/ha	Stage of Weed Growth	State	Critical Comments
Beetroot, Cabbage, Celery, Lettuce, Potatoes, Onions	Barnyard Grass (<i>Echinochloa</i> spp.), 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 Sprangletop Grass (<i>Leptochloa filiformis</i>), Seedling Johnson Grass (1) (<i>Sorghum halepense</i>), Summer Grass (<i>Digitaria</i> spp.), Volunteer Sorghum (<i>Sorghum</i> spp.)	166 to 250 250-333	2 to 5 leaf stage 5-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 150L/ha when spraying dense grass populations. (1) Only Johnson Grass seedlings germinating from seed will be controlled. Seedlings that appear later as shoots from underground stems will not be controlled, and more than one application may be required to control emerging shoots. Always apply with a crop oil. See Adjuvants and Spray Additives for specific instructions.
	Annual Ryegrass (<i>Lolium rigidum</i>), Annual Phalaris (<i>Phalaris minor</i>), Barley Grass (<i>Hordeum leporinum</i>), Brome Grass(<i>Bromus diandrus</i>), Wild Oats (<i>Avena</i> spp.)	100 to 333 116 to 333	2 leaf to fully tillered	All states	
	Volunteer Wheat (<i>Triticum aestivum</i>), Volunteer Oats (<i>Avena Sativa</i>)	133 to 333 (116 to 333 in WA only)			
	Volunteer Barley (<i>Hordeum vulgare</i>)	333			
	Silver grass (<i>Vulpia bromoides</i>) – suppression only (not Qld, WA)	166 to 333			
	Winter grass (<i>Poa annua</i>)	333			
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	333	2 leaf to fully tillered	All states	Apply after plants have recovered from transplant shock and are showing signs of active growth. Always apply with a crop oil. See Adjuvants and Spray Additives for specific instructions. Use a spray volume of 150L/ha when spraying dense grass populations. DO NOT use on Gymnosperms (pines,

Crop	Weeds Controlled	Rate mL/ha	Stage of Weed Growth	State	Critical Comments
	Grass(<i>Echinochloa</i> spp.), Blown Grass (<i>Agrostis aveacea</i>), Brome Grass (<i>Bromus diandrus</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 Sprangletop Grass (<i>Leptochloa filiformis</i>), Seedling Johnson Grass (1) (<i>Sorghum halepense</i>), Silver Grass (<i>Vulpia bromoides</i>) – suppression only (not QLD, WA), Summer Grass (<i>Digitaria</i> spp.), Volunteer Sorghum (<i>Sorghum</i> spp.), Volunteer Wheat (<i>Triticum aestivum</i>), Volunteer Oats (<i>Avena sativa</i>), Volunteer Barley (<i>Hordeum vulgare</i>), Winter Grass (<i>Poa annua</i>)				conifers, etc) unless a prior test has been conducted to check safety on the relevant species. See COMPATIBILITY AND CAUTIONS in GENERAL INSTRUCTIONS for particular species. (1) Only Johnson Grass seedlings germinating from seed will be controlled. Seedlings that appear later as shoots from underground stems will not be controlled, and more than one application may be required to control emerging shoots.

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

GENERAL INSTRUCTIONS

CLEANING SPRAY EQUIPMENT

Before using Rainbow Clethodim 360

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

After using Rainbow Clethodim 360

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 Rainbow Clethodim 360. Add spray additive and agitate thoroughly, then add the remainder of the water.

Agitate again before spraying commences.

ADJUVANTS AND SPRAY ADDITIVES Always apply Rainbow Clethodim 360 Herbicide with a crop oil. RAINBOW Clethodim 360 Herbicide may be applied with Hasten*, Kwickin*, Activoil*, D-C-Trate Advance or Rocket* at 1L/100L water or with Uptake* or Enhance* at 0.5-1L/100L water. (Use the higher rate of oil when weeds are large or if spraying conditions are less than optimal.) RAINBOW Clethodim 360 Herbicide may also be applied with D-C-Trate* at 2L/100L water. RAINBOW Clethodim 360 Herbicide is compatible with ammonium sulphate products such as Spraymate* Liase. When mixing Rainbow Clethodim 360 Herbicide with atrazine use Uptake or Enhance at 1L/100L as the adjuvant. The addition of ammonium sulphate is recommended to improve performance of this tank mix. Rainbow Clethodim 360 Herbicide is not compatible with Hot-Up* Spray Adjuvant or Freeway* Gold Penetrant.

APPLICATION

Ground Application

Rainbow Clethodim 360 Herbicide should be applied with calibrated spray equipment. **DO NOT** apply with spray droplets smaller than a **MEDIUM** spray droplet size category according to nozzle manufacturer specifications that refer to the ASAE S572 Standard or the BCPC Guideline. Apply in a minimum of 50 litres of water per hectare. Use 150 L/ha when spraying dense populations.

Aerial Application

Rainbow Clethodim 360 Herbicide can be applied through aircraft fitted with boom or Micronair equipment. **DO NOT** apply with spray droplets smaller than a **MEDIUM** spray droplet size category according to nozzle manufacturer specifications that refer to the ASAE S572 Standard or the BCPC Guideline. A spray volume of 20 to 30 L/ha is recommended.

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.

USE OF RAINBOW CLETHODIM 360 ON PASTURE LEGUME (LUCERNE, CLOVER AND MEDIC) SEED CROPS AND PASTURES AND PASTURE HERBS

Rainbow Clethodim 360 Herbicide has been demonstrated to be safe when applied to the following cultivars during early establishment.

- Pasture legumes
- Clover (Trifolium spp.)
- Annual: Subterranean Clover (Dalkeith, Dalsa, Goulburn, Koala, Nungarrin, Riverina, Seaton Park and York A), Arrowleaf Clover (Zulu II), Balansa Clover (Enduromax, Frontier, Paradana), Berseem Clover (Elite II), Gland Clover (Prima), Persian Clover (Prolific, Leeton), Rose Clover (Hykon).
- Perennial: Strawberry Clover (Palestine), White clover (NuSiral).
- Lucerne and Medics (Medicago spp.) Lucerne (Aurora, Field, Genesis, Hunterfield, Multileaf, Salado,

- Sardi SEVEN, Sceptre and Venus), Barrel Medic (Sephi, Jester Paraggio, Caliph), Burr Medic (Scimitar, Santiago), Snail Medic (Silver).
- Serradella (Ornithopus spp.) French or Pink Serradella (Cadiz), Yellow Serradella (Charano, Santorini).
- Pasture herbs: Chicory (Puna II) and Plantain (Tonic) Apply Rainbow Clethodim 360 Herbicide when plants have reached 2-4 trifoliate leaf stage, or after 40 days from sowing. Some pasture varieties may exhibit an initial reduction in crop vigour or biomass, however, these symptoms are transient and crops recover fully with no effect on yield.

COMPATIBILITY

Grass Herbicides: Rainbow Clethodim 360 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 Rainbow Clethodim 360 Herbicide is mixed with another grass herbicide, Rainbow Clethodim 360 Herbicide should be used at the full label rate specified for the target weed species.

RAINBOW Clethodim 360 Herbicide may also be applied in tank mixtures with one of the following products: Fastac* 100, Le-Mat*, Lontrel*, Spin Flo*, Sumi-Alpha* Flex*, Sumisclex* Broadacre and Dithane* M45.

RAINBOW Clethodim 360 Herbicide is compatible with atrazine. Avoid using this tank mix when crops are stressed by environmental factors. When mixing RAINBOW Clethodim 360 Herbicide with atrazine use Uptake* or Enhance* at 1L/100L as the adjuvant. The addition of an ammonium sulphate product such as Spraymate* Liase is recommended to improve performance of this tank mix.

RAINBOW Clethodim 360 Herbicide should not be applied in a tank mix with Bravo* (chlorothalonil), Brodal* (diflufenican), Basagran* (bentazone and MCPA) or Blazer* (acifluofen). Apply as separate applications. For information on compatibility of products not listed, please refer to Shandong Rainbow International Co Ltd.