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



Clethodim 360

HERBICIDE

ACTIVE CONSTITUENT: 360 g/L CLETHODIM
SOLVENT: 570 g/L LIQUID HYDROCARBON

GROUP A HERBICIDE

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

IMPORTANT: Read the attached booklet before use.

APVMA Approval No: 80404/100805

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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 Apparent Clethodim 360 Herbicide more than once to any one crop.

Crop	Crop Growth Stage	Weeds Controlled	Rate mL/ha
Canola, Chickpeas, Faba beans, Field peas, Lentils [Ⓢ] Lupins [Ⓢ]	Canola: DO NOT APPLY after flower buds become visible (green buds)	Annual Ryegrass (<i>Lolium rigidum</i>)	100 to 165
		Annual Phalaris (<i>Phalaris minor</i>)	115 to 165
	Chickpeas: DO NOT APPLY beyond full flowering	Barley Grass (<i>Hordeum leporinum</i>)	135* to 165* (115 to 165 in WA only)
		Brome grass (<i>Bromus diandrus</i>)	
	Faba beans: DO NOT APPLY beyond full flowering	Wild Oats (<i>Avena</i> spp.)	165
		Volunteer Wheat (<i>Triticum aestivum</i>)	165 to 330
Field peas: DO NOT APPLY beyond full flowering	Volunteer Oats (<i>Avena sativa</i>)	165 - 250	
	Volunteer Barley (<i>Hordeum vulgare</i>)	250	
Lentils: Apply up to 7 nodes / early branching stage of crop growth	Silver grass (<i>Vulpia bromoides</i>) – suppression only		
	Paradoxa grass, (<i>Phalaris paradoxa</i>)		
Lupins: DO NOT APPLY after 80% of flowers have opened			
Cotton (Qld, NSW and NT only), peanuts, Mung Beans, Soybeans	Cotton: DO NOT APPLY after full flowering (mid bloom)	Barnyard grass (<i>Echinochloa</i> spp.)	165 to 250
		Blown grass (<i>Agrostis aveacea</i>)	250
	Peanuts: DO NOT APPLY after the pod fill stage of crop development	Crowsfoot grass (<i>Eleusine indica</i>)	
		Feathertop Rhodes grass (<i>Chloris virgata</i>)	
	Mung beans: DO NOT APPLY after first flower buds are visible	Liverseed grass (<i>Urochloa panicoides</i>)	
		Red Sprangletop grass (<i>Leptochloa filiformis</i>)	
	Soybeans: DO NOT APPLY after first flowers are visible	Seedling Johnson grass (<i>Sorghum halepense</i>)	
		Summer grass (<i>Digitaria</i> spp.)	
		Volunteer Sorghum (<i>Sorghum</i> spp.)	

Stage of Weed Growth	State	Critical Comments
2 leaf to fully tillered	Qld, NSW, ACT, Vic, Tas, WA only	<p>* Always apply with Apparent Paraffinic Oil Adjuvant at 2 L/ha or Apparent Mach Two at 1 L/ha or Apparent Canola Oil Wetter spray volume at 1 L/100 L spray volume.</p> <p>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.</p> <p>See COMPATIBILITY AND CAUTIONS in GENERAL INSTRUCTIONS for mixture recommendations with insecticides, fungicides and other herbicides.</p> <p>[Ⓢ] Application up to 7-node/early-branching crop growth stage only.</p> <p>[Ⓢ] NOT Queensland</p>
	NSW, ACT, Vic, Tas only	
2 to 5 leaf stage	Qld, NSW, ACT only	
5-leaf to fully tillered		
2 to 5 leaf stage	Qld, NSW, ACT, Vic WA, NT only	<p>Always apply with Apparent Paraffinic Oil Adjuvant at 2 L/ha or Apparent Mach Two at 1 L/ha.</p> <p>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.</p> <p>See COMPATIBILITY AND CAUTIONS in GENERAL INSTRUCTIONS for mixture recommendations with insecticides, fungicides and other herbicides.</p>
5-leaf to fully tillered		

Crop	Weeds Controlled	Rate mL/ha
Beetroot, Cabbage, Celery, Lettuce, Potatoes, Onions	Barnyard grass (<i>Echinochloa</i> spp.)	165 to 250
	Blown grass (<i>Agrostis aveacea</i>)	250
	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 filliformis</i>)	
	Seedling Johnson grass (<i>Sorghum halepense</i>)	
	Summer grass (<i>Digitaria</i> spp.)	
	Volunteer Sorghum (<i>Sorghum</i> spp.)	
Annual Ryegrass (<i>Lolium rigidum</i>)	Annual Phalaris (<i>Phalaris minor</i>)	100 to 165
	Barley Grass (<i>Hordeum leporinum</i>)	115 to 165
	Brome grass (<i>Bromus diandrus</i>)	
	Wild Oats (<i>Avena</i> spp.)	
	Volunteer Wheat (<i>Triticum aestivum</i>)	135* to 165
	Volunteer Oats (<i>Avena sativa</i>)	* (115 to 165 in WA only)
	Volunteer Barley (<i>Hordeum vulgare</i>)	165
Silver grass (<i>Vulpia bromoides</i>) – suppression only (not Qld, WA)	165 to 330	
Winter grass (<i>Poa annua</i>)	330	
Forestry, non-bearing fruit trees and ornamentals	Annual Ryegrass (<i>Lolium rigidum</i>)	330
	Annual Phalaris (<i>Phalaris minor</i>)	
	Barley Grass (<i>Hordeum leporinum</i>)	
	Barnyard 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 filliformis</i>)	
	Seedling Johnson grass (<i>Sorghum halepense</i>)	
	Silver grass (<i>Vulpia bromoides</i>) – suppression only (not Qld, WA)	
	Summer grass (<i>Digitaria</i> spp.)	
	Volunteer Barley (<i>Hordeum vulgare</i>)	
Volunteer Oats (<i>Avena sativa</i>)		
Volunteer Sorghum (<i>Sorghum</i> spp.)		
Volunteer Wheat (<i>Triticum aestivum</i>)		
Winter grass (<i>Poa annua</i>)		

Stage of Weed Growth	State	Critical Comments
2 to 5 leaf stage 5-leaf to fully tillered	All states	Always apply with Apparent Paraffinic Oil Adjuvant at 2 L/ha or Apparent Mach Two at 1 L/ha. 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.
2 leaf to fully tillered	All states	Always apply with Apparent Paraffinic Oil Adjuvant at 2 L/ha or Apparent Mach Two at 1 L/ha or Apparent Canola Oil Wetter spray volume at 1 L/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.
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 Apparent Paraffinic Oil Adjuvant at 2 L/ha or Apparent Mach Two at 1 L/ha. Use a spray volume of 150 L/ha when spraying dense grass populations. Do NOT use on Gymnosperms (pines, 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.

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

Apparent Clethodim 360 Herbicide is a member of the cyclohexanedione group of herbicides. Apparent Clethodim 360 Herbicide has the inhibition of acetyl CoA carboxylase mode of action. For weed resistance management, Apparent Clethodim 360 Herbicide is a Group A herbicide. Some naturally occurring weed biotypes resistant to Apparent 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 Apparent Clethodim 360 Herbicide or other Group A herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Apparent Pty Ltd accepts no liability for any losses that may result from the failure of Apparent Clethodim 360 Herbicide to control resistant weeds.

CLEANING SPRAY EQUIPMENT

Before using Apparent Clethodim 360 Herbicide

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

After using Apparent Clethodim 360 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 Apparent Clethodim 360 Herbicide. Add spray additive and agitate thoroughly, then add the remainder of the water. Agitate again before spraying commences.

APPLICATION

Ground Application

Apparent 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

Apparent 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.

COMPATIBILITY

Grass Herbicides: Apparent Clethodim 360 Herbicide is compatible with the following grass herbicides: Apparent Salvo (Fluazifop 212), Apparent Haloxyfop 512, Apparent Quizalofop 200, Sethoxydim, Propaquizafop. (refer to the propaquizafop label for detail on adjuvant recommendations for that product).

NOTE: In all situations where Apparent Clethodim 360 Herbicide is mixed with another grass herbicide, Apparent Clethodim 360 Herbicide should be used at the full label rate specified for the target weed species.

Insecticides: Apparent Clethodim 360 Herbicide may be applied in tank mixtures with the following products: Apparent Matey (Omethoate 290), Apparent Alpha-Cypermethin 100.

Apparent Clethodim 360 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 Apparent Pty Ltd.

CAUTION

Ornamentals and Trees – While Apparent Clethodim 360 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 Apparent Clethodim 360 Herbicide if wind is likely to cause drift onto susceptible crops/plants, cropping lands or pastures. Apparent 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 chemical or used containers.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in 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, puncture or shred and deliver empty packaging for appropriate disposal 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. 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 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 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.

SAFETY DATA SHEET

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

CONDITIONS OF SALE

The use of Apparent Clethodim 360 Herbicide being beyond the control of the manufacturer no warranty expressed or implied is given by Apparent 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 Apparent Pty Ltd accepts with no responsibility for any consequences whatsoever resulting from the use of this product.

In a Transport Emergency Dial 000 Police or Fire Brigade