



Company Name: UPL AUSTRALIA LIMITED
Product Name: UPROOT 240 EC SELECTIVE HERBICIDE
APVMA Approval No: 62783/106467



Label Name:	UPROOT 240 EC SELECTIVE HERBICIDE
Signal Headings:	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Constituent Statements:	ACTIVE CONSTITUENT: 240 g/L CLETHODIM SOLVENT: 606 g/L HYDROCARBON LIQUID
Mode of Action:	GROUP A HERBICIDE
Statement of Claims:	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.
Net Contents:	1L - 200L
Restrains:	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 one hour of application. DO NOT apply UpRoot 240 EC Selective Herbicide more than once to any one crop.
Directions for Use:	This section contains file attachment. File Name: Up-Root DfU 0416.doc File Size: 73728 bytes
Other Limitations:	

Withholding Periods:	<p>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.</p> <p>GRAZING: CANOLA, CHICKPEAS, FABA BEANS, FIELD PEAS, LENTILS, LUPINS, MUNG BEANS, PEANUTS, 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.</p>
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Trade Advice:	
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General Instructions:	<p>CLEANING SPRAY EQUIPMENT Before using UpRoot 240 EC Selective Herbicide Ensure that the recommended clean-out procedure for the previous product (particularly sulfonyleurea herbicides) sprayed with the equipment was done properly.</p> <p>After using UpRoot 240 EC Selective Herbicide Empty the tank and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean all filters in the tank, pump line and nozzles. Use of a household detergent will aid in 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.</p> <p>MIXING: To ensure even mixing, half-fill the spray tank with clean water and add the required amount of product. Add spray additive and agitate thoroughly, then add the remainder of the water. Agitate again before spraying commences.</p> <p>APPLICATION: Ground Application: UpRoot 240 EC Selective Herbicide should be applied with calibrated spray equipment producing a median droplet range of 200 to 300 microns VMD. Apply in a minimum of 50 litres of water per hectare. Use 150 L/ha when spraying dense populations.</p> <p>Aerial Application: UpRoot 240 EC Selective 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 to 250 microns 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.</p> <p>COMPATIBILITY: UpRoot 240 EC Selective Herbicide is compatible with the following grass herbicides: Quizalofop-p-ethyl, Fluazifop, Haloxyfop, Sethoxydim, and Propaquizafop. (Refer to the label for detail on adjuvant recommendations for that product).</p>
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NOTE: In all situations where UpRoot 240 EC Selective Herbicide is mixed with another grass herbicide, UpRoot 240 EC Selective Herbicide should be used at the full label rate specified for the target weed species. UpRoot 240 EC Selective Herbicide may also be applied in tank mixtures with one of the following products: Sumi-Alpha 50 EC, Sumi-Alpha Dual, 100g/L Alphacypermethrin Insecticide and Omethoate.
UpRoot 240 EC Selective Herbicide should not be applied in a tank mix with Diflufenican, Basagran* or Blazer*. Apply as separate applications. For information on compatibility of products not listed, please refer to UPL Australia Limited.

Resistance Warning:

GROUP A HERBICIDE

UpRoot 240 EC Selective Herbicide is a member of the cyclohexanedione group of herbicides. UpRoot 240 EC Selective Herbicide has the inhibition of acetyl coA carboxylase mode of action. For weed resistance management, UpRoot 240 EC Selective Herbicide is a Group A Herbicide. Some naturally-occurring weed biotypes resistant to UpRoot 240 EC Selective 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 UpRoot 240 EC Selective Herbicide or other Group A Herbicides. Since occurrence of resistant individuals is difficult to detect prior to use, UPL Australia Limited accepts no liability for any losses that may result from the failure of UpRoot 240 EC Selective Herbicide to control resistant weeds.

Precautions:

CAUTION:

Ornamentals and Trees - While UpRoot 240 EC Selective 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.
DO NOT use on Gymnosperms (pines, conifers, etc) unless a prior test has been conducted to check safety on the relevant species.

Protections:

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS:

DO NOT apply UpRoot 240 EC Selective Herbicide if wind is likely to cause drift onto susceptible crops/plants, cropping lands or pastures. UpRoot 240 EC Selective 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 the 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 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.

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 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, face shield or goggles and contaminated clothing.
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First Aid Instructions:	If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If swallowed, do NOT induce vomiting. Give a glass of water.
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First Aid Warnings:	
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CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	RATE mL/ha	STAGE OF WEED GROWTH	STATE	CRITICAL COMMENTS	
Canola, Chickpeas, Faba beans, Field peas, Lentils ⁽¹⁾ , Lupins [#]	Canola: DO NOT APPLY after flower buds become visible (green buds)	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, SA, WA only	Always apply with D-C-Trate* at 2L/100L or Hasten* at 1L/100L or Kwickin* at 1L/100L or Uptake* at 500mL/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</i> spp.)	175 to 250				
	Chickpeas: DO NOT APPLY beyond full flowering	Volunteer wheat (<i>Triticum aestivum</i>), Volunteer oats (<i>Avena sativa</i>)	200* to 250 *(175 to 250 in WA only)	2- to 5-leaf stage			NSW, ACT, Vic, Tas only
		Volunteer barley (<i>Hordeum vulgare</i>)	250				
	Faba beans: DO NOT APPLY beyond full flowering	Silver grass (<i>Vulpia bromoides</i>) - suppression only	250 to 500	5-leaf to fully tillered			Qld, NSW, ACT, only
		Field peas: DO NOT APPLY beyond full flowering	Paradoxa grass (<i>Phalaris paradoxa</i>)				
	Lentils: Apply up to the 7 node/early branching stage of crop growth	Lupins: DO NOT APPLY after 80% of flowers have opened					
						⁽¹⁾ Application up to 7- node/early branching crop growth stage only. # NOT QLD	

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	RATE mL/ha	STAGE OF WEED GROWTH	STATE	CRITICAL COMMENTS
Cotton (Qld. NSW and NT only), Peanuts, Mung beans, Soybeans	<p>Cotton: DO NOT APPLY after full flowering (mid bloom)</p> <p>Peanuts: DO NOT APPLY after the pod fill stage of crop development</p> <p>Mung beans: DO NOT APPLY after first flower buds are visible</p> <p>Soybeans: DO NOT APPLY after first flower buds are visible</p>	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 (<i>Sorghum halepense</i>), Summer grass (<i>Digitaria</i> spp.), Volunteer sorghum (<i>Sorghum</i> spp.)	250 to 375	2- to 5-leaf stage	Qld, NSW, ACT, Vic, WA, NT only	Always apply with D-C-Trate at 2L/100L or Hasten at 1L/100L or Kwickin at 1L/100L or Uptake at 500mL/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.
			375	5-leaf to fully tillered		

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 (<i>Sorghum halepense</i>), Summer grass (<i>Digitaria</i> spp.), Volunteer sorghum (<i>Sorghum</i> spp.)	250 to 375	2- to 5-leaf stage	All States	Always apply with D-C-Trate at 2L/100L or Hasten at 1L/100L or Kwickin at 1L/100L or Uptake at 500mL/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.
		375	5-leaf to fully tillered		
	Annual ryegrass (<i>Lolium rigidum</i>), Annual phalaris (<i>Phalaris minor</i>)	150 to 250	2-leaf to fully tillered	All States	
	Barley grass (<i>Hordeum leporinum</i>), Brome grass (<i>Bromus diandrus</i>), Wild oats (<i>Avena</i> spp.)	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 (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</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 (<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>Hordum vulgare</i>), Winter grass (<i>Poa annua</i>)	500	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 D-C-Trate at 2L/100L or Hasten at 1L/100L or Kwickin at 1L/100L or Uptake at 500mL/100L spray volume. 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.
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NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION