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

Apparent 

Quizalofop 200 EC

SELECTIVE HERBICIDE

ACTIVE CONSTITUENT: 200 g/L QUIZALOFOP-P-ETHYL
SOLVENTS: 592 g/L HYDROCARBON LIQUID
150 g/L N-METHYL-PYRROLIDONE

GROUP A HERBICIDE

For the control of certain grass weeds in broadleaf crops as per
Directions for Use table.

IMPORTANT: Read this booklet before use.

APVMA Approval No: 68393/58280

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DIRECTIONS FOR USE

RESTRAINTS:

DO NOT apply to crops that are stressed by any cause (such as severe cold weather, disease, drought or waterlogging).

DO NOT apply to weeds that are stressed by any cause (such as weather conditions, drought, waterlogging) or not actively growing.

Grass weeds under stress frequently become less susceptible to herbicide activity. This may result in incomplete kill or suppression of weeds only.

DO NOT apply under conditions of high temperature and low humidity.

DO NOT apply if rainfall is expected within 3 hours.

DO NOT apply less than 50 L prepared spray/ha – see section "Ground Spraying".

BOOM SPRAYING: WINTER GROWING WEEDS: ALL STATES

CROP	WEEDS CONTROLLED	WEEDS STAGE	RATE /HA		
Beetroot	Annual Ryegrass (<i>Lolium rigidum</i>), Brome grasses (<i>Bromus</i> spp.)	3 leaf to early tillering	150 mL or 190 mL		
Cabbage					
Canola					
Carrots					
Cauliflower					
Chickpeas					
Clover & Sub Clover pastures					
Cucumbers ●					
Faba Beans					
Field Peas					
Honey Dew Melons ●					
Lentils			Barley grass (<i>Hordeum</i> spp.), Volunteer Barley, Volunteer Wheat	3 leaf to early tillering	125 mL
Lucerne					
Lupins					
Medic Pasture					
Mung Beans					
Navy Beans					
Onions					
Potatoes					
Pumpkins ●					
Radish					
Tomatoes					
Vetch					
	Wild Oats (<i>Avena</i> spp.)	3 leaf to mid tillering	65 mL or 125 mL		

WITHHOLDING PERIOD		CRITICAL COMMENTS
HARVEST	GRAZING	
14 days	-	Apply when weeds are actively growing. Use higher rate under heavy weed pressure and/or when weeds have commenced tillering*.
9 weeks	-	
11 weeks	4 weeks	
10 weeks	-	
14 days	-	
12 weeks	4 weeks	
-	14 days	
14 days	-	
12 weeks	4 weeks	
9 weeks	4 weeks	
9 weeks	-	
12 weeks	4 weeks	
-	4 weeks	
6 weeks	4 weeks	
-	14 days	
12 weeks	4 weeks	
12 weeks	4 weeks	
18 weeks	-	
10 weeks	-	
9 weeks	-	
21 days	-	
4 weeks	-	
12 weeks	4 weeks	

* Always add a surfactant/wetting agent at the recommended rate – See section on "Use of Surfactant/Wetting Agent" for details.

● **IMPORTANT DO NOT** apply Apparent Quizalofop 200 EC Selective Herbicide before the five true leaf stage of Cucumbers, Honey Dew Melons and Pumpkins.

BOOM SPRAYING: SUMMER GROWING WEEDS: ALL STATES

CROP	WEEDS CONTROLLED	WEEDS STAGE	RATE /HA
Beetroot	Awnless barnyard grass (<i>Echinochloa colona</i>), Barnyard grass (<i>Echinochloa crusgalli</i>).	3 leaf to early tillering	250 mL
Cabbage			or 375 mL
Cauliflower	Couch grass (<i>Cynodon dactylon</i>)	2 to 4 leaf seedling	250 mL
Carrots			
Cucumbers ●			
Green Beans			
Honey Dew Melons ●	Dinebra (<i>Dinebra retroflexa</i>)	3 leaf to early tillering	125 mL
Lucerne			or 190 mL
Mung Beans	Crow'sfoot grass (<i>Eleusine indica</i>)	2 leaf to early tillering	250 mL
Navy Beans			
Onions	Foxtail millet (<i>Setaria italica</i>)	2 leaf to early tillering	125 mL
Peanuts			or 250 mL
Potatoes	Columbus grass (<i>Sorghum x almum</i>), Johnson grass (<i>Sorghum halepense</i>).	2 leaf to 3 tiller	250 mL
Pineapples			or 375 mL
Pumpkins ●	Liverseed grass (<i>Urochloa panicoides</i>)		
Radish			
Soybeans	Rhodes grass (<i>Chloris gayana</i>), Stink grass (<i>Eragrostis ciliaris</i>)	3 leaf to early tillering	125 mL
Sunflowers			or 250 mL
Tomatoes	Queensland blue grass (<i>Dichanthium sericeum</i>)	3 leaf to early tillering	250 mL
	Summer grass (<i>Digitaria ciliaris</i>)	3 leaf to early tillering	250 mL
			or 500 mL

* Always add a surfactant/wetting agent at the recommended rate – See section on "Use of Surfactant/Wetting Agent" for details.

- **IMPORTANT DO NOT** apply Apparent Quizalofop 200 EC Selective Herbicide before the five true leaf stage of Cucumbers, Honey Dew Melons and Pumpkins.

WITHHOLDING PERIOD		CRITICAL COMMENTS
HARVEST	GRAZING	
14 days	-	Apply when weeds are actively growing. Use higher rate under heavy weed pressure and/or when weeds have commenced tillering.*
9 weeks	-	
14 weeks	-	
10 weeks	-	
14 days	-	Apply when weeds are actively growing. This rate will only control seedling Couch Grass which is less than 2 months old and established from seed.*
5 weeks	4 weeks	
9 weeks	-	
-	4 weeks	Apply when weeds are actively growing. Use higher rate under heavy weed pressure and/or when weeds have commenced tillering.*
12 weeks	4 weeks	
12 weeks	4 weeks	
18 weeks	-	Apply when weeds are actively growing.*
11 weeks	11 weeks	Apply when weeds are actively growing. Use higher rate under heavy weed pressure and/or when weeds have commenced tillering.*
10 weeks	-	
7 days	-	
9 weeks	-	
21 days	-	Apply when weeds are actively growing. Use higher rate under heavy weed pressure and/or when weeds have commenced tillering.*
12 weeks	4 weeks	
9 weeks	11 weeks	
4 weeks	-	
		Apply when weeds are actively growing.*
		Apply when weeds are actively growing. Use higher rate under heavy weed pressure and/or when weeds have commenced tillering.*

HAND GUN SPRAYING: ALL STATES

CROP	WEEDS CONTROLLED	WEEDS STAGE	RATE /HA
Beetroot	Awnless barnyard grass (<i>Echinochloa colona</i>), Crowfoot grass (<i>Eleusine indica</i>)	3 leaf to early tillering	65 mL
Cabbage			
Cauliflower	Paspalum (<i>Paspalum dilatatum</i>)	Seedling to established clumps	
Canola			
Carrots	Johnson grass (<i>Sorghum halepense</i>)	Seedling	125 mL
Chickpeas		2 leaf to early tillering	
Clover & Sub Clover pastures	Kikuyu (<i>Pennisetum clandestinum</i>)	Rhizome	
Cucumbers ●		2 leaf to early tillering	
Faba Beans		Seedling to established plants	
Field Peas			
Grapes			
Green Beans			
Honey Dew Melons ●			
Lentils			
Lucerne			
Lupins			
Medic Pasture			
Mung Beans			
Navy Beans			
Non Crop			
Onions			
Peanuts			
Pineapples			
Potatoes			
Pumpkins ●			
Radish			
Soybeans			
Sunflowers			
Tomatoes			
Vetch			

● IMPORTANT: DO NOT apply Apparent Quizalofop 200 EC Selective Herbicide before the five true leaf stage of Cucumbers, Honey Dew Melons and Pumpkins.

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

WITHHOLDING PERIOD		CRITICAL COMMENTS
HARVEST	GRAZING	
14 days	-	Apply when weeds are actively growing. Use a minimum of 800 L of prepared spray/ha. Thoroughly wet target weeds (especially well -established clumps) without causing runoff. Repeated sprays may be necessary for perennial grass species. Always add a surfactant/wetting agent at the recommended rate see section on "Use of Surfactant/Wetting Agent" for details.
9 weeks	-	
14 days	-	
11 weeks	4 weeks	
10 weeks	-	
12 weeks	4 weeks	
14 days	4 weeks	
	14 days	
14 days		
12 weeks	4 weeks	
9 weeks	4 weeks	
-	-	
5 weeks	4 weeks	
9 weeks	-	
12 weeks	4 weeks	
-	4 weeks	
6 weeks	4 weeks	
-	14 days	
12 weeks	4 weeks	
12 weeks	4 weeks	
-	-	
18 weeks	-	
11 weeks	11 weeks	
7 days	-	
10 weeks	-	
9 weeks	-	
21 days	-	
12 weeks	4 weeks	
9 weeks	11 weeks	
4 weeks	-	
12 weeks	4 weeks	

WITHHOLDING PERIOD

HARVEST

Beetroot, Cauliflower, Cucumbers: **DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.**

Cabbage, Field Peas, Honey Dew Melon, Pumpkins, Sunflowers: **DO NOT HARVEST FOR 9 WEEKS AFTER APPLICATION.**

Carrots, Potatoes: **DO NOT HARVEST FOR 10 WEEKS AFTER APPLICATION.**

Chickpeas, Faba Beans, Lentils, Mung Beans, Navy Beans, Soybeans, Vetch: **DO NOT HARVEST FOR 12 WEEKS AFTER APPLICATION.**

Canola, Peanuts: **DO NOT HARVEST FOR 11 WEEKS AFTER APPLICATION.**

Green Beans: **DO NOT HARVEST FOR 5 WEEKS AFTER APPLICATION.**

Lupins: **DO NOT HARVEST FOR 6 WEEKS AFTER APPLICATION.**

Onions: **DO NOT HARVEST FOR 18 WEEKS AFTER APPLICATION.**

Pineapples: **DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.**

Radish: **DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.**

Tomatoes: **DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.**

GRAZING

Canola, Chickpeas, Faba Beans, Field Peas, Green Beans, Lentils, Lucerne, Lupins, Mung Beans, Navy Beans, Soybeans, Vetch: **DO NOT GRAZE OR CUT FOR STOCK FEED FOR 4 WEEKS AFTER APPLICATION.**

Clover, Medic Pastures (except Lucerne): **DO NOT GRAZE OR CUT FOR STOCK FEED FOR 14 DAYS AFTER APPLICATION.**

Peanuts, Sunflowers: **DO NOT GRAZE OR CUT FOR STOCK FEED FOR 11 WEEKS AFTER APPLICATION.**

GENERAL INSTRUCTIONS

Apparent Quizalofop 200 EC Selective Herbicide is an emulsifiable concentrate herbicide used post emergence for the control of certain grass weeds in specified broadleaf crops. Apparent Quizalofop 200 EC Herbicide is a systemic herbicide, which is rapidly absorbed and readily translocates from the treated foliage to the root system and growing points of the plant. Applications made to grass weeds stressed due to insufficient moisture or cold temperatures may result in unsatisfactory control.

Time of Application

For maximum benefit, weeds should be sprayed when young and actively growing. Application may be made at any stage of crop growth (except to curcubit crops), but sufficient time must be allowed for the prescribed withholding period to expire before harvest and/or grazing or cutting for stockfeed.

IMPORTANT: DO NOT apply Apparent Quizalofop 200 EC Selective Herbicide to curcubit crops before the five true leaf stage.

Spray Preparation

If spray equipment has been previously used for the application of a sulfonylurea herbicides eg (Metsulfuron methyl), chlorsulfuron, thifensulfuron methyl, triasulfuron, ensure that the recommended sprayer equipment procedure for the product previously applied has been followed, before using the equipment for the application of Apparent Quizalofop 200 EC Selective Herbicide. Apparent Quizalofop 200 EC Selective Herbicide is an emulsifiable concentrate to be mixed with water and applied as a spray. Add the required amount of Apparent Quizalofop 200 EC Selective Herbicide directly to the spray tank and mix well. If mixing with mancozeb or carbendazim, add these to the spray tank and mix thoroughly PRIOR to adding Apparent Quizalofop 200 EC Selective Herbicide. If spray solution has been left standing for more than 3 hours ensure thorough re-agitation before commencement of spraying. DO NOT allow spray mixture to stand overnight, as re-suspension may be difficult.

Use of a Surfactant/Wetting Agent

Apparent Quizalofop 200 EC Selective Herbicide may be used with either of the following adjuvant systems:

1. A methylated and/or ethylated seed crop oil (eg Hasten#) at 1 L/100 L of final spray volume (i.e. 1% v/v).
2. A non-ionic surfactant (1000 gai/L) at 200 mL/100 L of final spray volume (i.e. 0.2% v/v).

DO NOT use Apparent Quizalofop 200 EC Selective Herbicide with mineral based crop oils (eg D-C-Trate#) or non-methylated spray oils of crop origin (eg Codacide# oil, Symetrol# oil) as spray adjuvants.

Compatibilities

Apparent Quizalofop 200 EC Selective Herbicide is compatible with the herbicides sethoxydim and clethodim. The recommended surfactant/wetting agent is the methylated and/or ethylated seed crop oil adjuvant system. Apparent Quizalofop 200 EC Selective Herbicide is compatible with the insecticides deltamethrin, omethoate, dimethoate, methomyl, endosulfan, the fungicides carbendazim and mancozeb and the herbicide clopyralid when using the methylated and/or ethylated seed crop oil adjuvant system.

Apparent Quizalofop 200 EC Selective Herbicide is compatible with the herbicide diflufenican when using the non-ionic surfactant only adjuvant system. DO NOT add crop oil to tank mixtures of Apparent Quizalofop 200 EC Selective Herbicide/diflufenican.

Application of Apparent Quizalofop 200 EC Selective Herbicide/diflufenican tank mix may result in crop effects, which usually appear as yellow or white bleaching on the leaves. New growth and subsequent yield, however, will not be affected. To minimise crop effects apply Apparent Quizalofop 200 EC Selective Herbicide a minimum of 5 days prior to diflufenican application or a minimum 10 days after diflufenican application. (14 – 21 days if weeds have been stressed).

Ground Spraying

Use between 50 and 100 litres of prepared spray/ha, the higher spray volume gives more reliable results. If weeds are large and the crop canopy is dense, increase the volume to 150 litres prepared spray/ha.

Use sprayers with flat fan or hollow cone nozzles at 210 - 350 kPa to give an even distribution of droplets with no less than 50% of the spray volume in the 150 - 300 micron range. 110° flat fan nozzles are preferred. For proper spray coverage adjust the boom and nozzle height according to the specification listed by the nozzle manufacturers. Ensure the spray is evenly distributed and a double overlap spray pattern is obtained. Avoid overlapping boomspray widths and shut off spray booms while starting, turning, slowing or stopping.

SPRAYER CLEANUP

Thoroughly clean all traces of Apparent Quizalofop 200 EC Selective Herbicide from application equipment immediately after use. Flush tank, pump, hoses and boom with several changes of water after removing nozzle tips and screens (clean those parts separately). Failure to thoroughly clean the equipment may result in injury to subsequently sprayed cereal and grass crops. If spray equipment has been previously used for the application of sulfonylurea herbicides eg metsulfuron methyl, thifensulfuron methyl, chlorsulfuron, triasulfuron or terbutryn, ensure that the recommended sprayer cleanup procedure of the product previously sprayed has been followed before using the equipment for the application of Apparent Quizalofop 200 EC Selective Herbicide.

RESISTANT WEEDS WARNING

GROUP A HERBICIDE

Apparent Quizalofop 200 EC Selective Herbicide is a member of the "Fop" (aryloxyphenoxy propanate) group of herbicides.

Apparent Quizalofop 200 EC Herbicide has the inhibitors of acetyl coA carboxylase mode of action. For weed resistance management Apparent Quizalofop 200 EC Herbicide is a Group A herbicide. Some naturally occurring weed biotypes resistant to Apparent Quizalofop 200 EC 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 Quizalofop 200 EC 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 Quizalofop 200 EC Herbicide to control resistant weeds. Strategies to minimise the risk of herbicide resistance are available. Consult your farm chemical supplier, consultant, local Department of Agriculture or Primary Industries, or local Apparent Pty Ltd Representative.

PRECAUTION: RE-ENTRY

DO NOT allow entry into treated areas when the spray has dried. When prior entry is necessary, wear chemical resistant gloves.

Clothing must be laundered after each day's use.

PROTECTION OF CROPS NATIVE AND OTHER NON-TARGET PLANTS

DO NOT plant cereal crops into the treated area for a period of 18 weeks after application of Apparent Quizalofop 200 EC Selective Herbicide.

DO NOT apply under weather conditions, or from spraying equipment, that may cause drift onto nearby susceptible plants/cops, cropping lands or pastures.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

STORAGE AND DISPOSAL

(20 L and 200 L only)

DO NOT store tank-mixes of Apparent Quizalofop 200 EC Selective Herbicide with other materials. Store in the closed original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. When storing, keep from contact with fertilisers, fungicides and seeds. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, relace cap and return clean container 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 container 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. If the container is a returnable/refillable type, when empty, or contents no longer required, return the container to the point of purchase. This type of container remains the property of Apparent Pty Ltd.

Refillable Containers (1000 L only)

Store in the closed original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

Envirodrum 110 L Mini Bulk Returnable Container

Store the original sealed Envirodrum in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the Envirodrum with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the Envirodrum have been used, please return the empty Envirodrum to the point of purchase. The Envirodrum remains the property of Apparent Pty Ltd.

SAFETY DIRECTIONS

Will irritate the eyes. Avoid contact with eyes. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, a washable hat, and elbow-length PVC gloves. If product on skin, immediately wash area with soap and water. Wash hands after use. After each day's use wash gloves 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. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

MATERIAL SAFETY DATA SHEET

For further information refer to Material Safety Data Sheet (MSDS), which is available from the supplier.

CONDITIONS OF SALE

The use of Apparent Quizalofop 200 EC Selective 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.

Other trademark