

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

eChem  
**Quizal 200 EC**

HERBICIDE

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

**GROUP 1 HERBICIDE**

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

**IMPORTANT: READ THIS LEAFLET BEFORE OPENING OR USING THIS PRODUCT**

APVMA Approval No: 95323/145291

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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 a complete 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”.

**SPRAY DRIFT RESTRAINTS**

Specific definitions for terms used in this section of the label can be found at [apvma.gov.au/spraydrift](http://apvma.gov.au/spraydrift)

**DO NOT** allow bystanders to come into contact with the spray cloud.

**DO NOT** apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone tables below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

**DO NOT** apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

**DO NOT** apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until 1 to 2 hours after sunrise.

**BOOM SPRAYING: WINTER GROWING WEEDS: ALL STATES.**

CROPS	WEEDS CONTROLLED	WEEDS STAGE	RATE/Ha	WITHOLDING PEERIOD		CRITICAL COMMENTS
				HARVEST	GRAZING	
Beetroot Cabbage Canola Carrots Cauliflower Chickpeas	Annual Ryegrass ( <i>Lolium rigidum</i> ), Brome Grasses ( <i>Bromus</i> spp.)	3 leaf to early tillering	150 mL or 190 mL	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	–	
Clover & subclover pastures Cucumbers* Faba beans Field peas Honey dew melons*	Barley Grass ( <i>Hordeum</i> spp.), Volunteer Barley, Volunteer Wheat	3 leaf to early tillering	125 mL	14 days	–	Apply when weeds are actively growing*.
				12 weeks	4 weeks	
				9 weeks	4 weeks	
				9 weeks	–	
Lentils 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	12 weeks	4 weeks	Apply when weeds are actively growing. Use the lower rate only under light weed pressure and/or when weeds are at the 1-3 leaf stage. Use higher rate under heavy weed pressure and/or when weeds are tillering. The higher rate will give better or more reliable control*.
				–	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	

**BOOM SPRAYING: SUMMER GROWING WEEDS: ALL STATES.**

CROPS	WEEDS CONTROLLED	WEEDS STAGE	RATE/Ha	WITHOLDING PEERIOD		CRITICAL COMMENTS
				HARVEST	GRAZING	
Beetroot Cabbage Cauliflower Carrots Cucumbers* Green beans Honey dew melons*	Awnless Barnyard Grass ( <i>Echinochloa colona</i> ), Barnyard Grass ( <i>Echinochloa crusgalli</i> )	3 leaf to early tillering	250 mL or 375 mL	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	–	
Lucerne Mung beans Navy beans Onions Peanuts Potatoes Pineapples Pumpkins* Radish Soybeans Sunflower Tomatoes	Couch Grass ( <i>Cynodon dactylon</i> )	2-4 leaf seeding	250 mL	9 weeks	–	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*.
				–	4 weeks	
	Dinebra ( <i>Dinebra retroflexa</i> )	3 leaf to early tillering	125 mL or 190 mL	12 weeks	4 weeks	Apply when weeds are actively growing. Use higher rate under heavy weed pressure and/or when weeds have commenced tillering.
				18 weeks	–	
				11 weeks	11 weeks	
				10 weeks	–	
				7 days	–	
				9 weeks	–	
	Crowsfoot Grass ( <i>Eleusine indica</i> )	2 leaf to early tillering	250 mL	21 days	–	Apply when weeds are actively growing*.
				12 weeks	4 weeks	
	Foxtail Millet ( <i>Setaria italica</i> )	2 leaf to early tillering	125 mL or 250 mL	9 weeks	–	Apply when weeds are actively growing. Use higher rate under heavy weed pressure, and/or when weeds have commenced tillering*.
				4 weeks	–	
Columbus Grass ( <i>Sorghum x almum</i> ), Johnson Grass ( <i>Sorghum halepense</i> ), Liverseed Grass ( <i>Urochloa panicoides</i> )	2 leaf to 3 tiller	250 mL or 375 mL	12 weeks	11 weeks	Apply when weeds are actively growing*.	
			–	–		
Rhodes Grass ( <i>Chloris gayana</i> ), Stink Grass ( <i>Eragrostis cilianensis</i> )	3 leaf to early tillering	125 mL or 250 mL	9 weeks	–	Apply when weeds are actively growing*.	
			–	–		
Queensland Blue Grass ( <i>Dichanthium sericeum</i> )	3 leaf to early tillering	250 mL	–	–	Apply when weeds are actively growing*.	
Summer Grass ( <i>Digitaria ciliaris</i> )	3 leaf to early tillering	250 mL or 500 mL	–	–	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.**

CROPS	WEEDS CONTROLLED	WEEDS STAGE	RATE/ha	WITHHOLDING PERIOD		CRITICAL COMMENTS
				HARVEST	GRAZING	
Beetroot	Awnless Barnyard Grass ( <i>Echinochloa colona</i> ), Crowfoot Grass ( <i>Eleusine indica</i> )	3 leaf to early tillering	65 mL	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. Repeat spraying may be necessary for perennial grass species.
Cabbage				9 weeks	–	
Cauliflower				14 weeks	–	
Canola				11 weeks	4 weeks	
Carrots				10 weeks	–	
Chickpeas				12 weeks	4 weeks	
Clover & subclover pastures	Paspalum ( <i>Paspalum dilatatum</i> )	Seeding to established clumps		–	14 days	Always add a surfactant/wetting agent at the recommended rate – see section on “Use of Surfactant/Wetting agent” for details.
Cucumbers*				14 days	–	
Faba beans	Johnson Grass ( <i>Sorghum halepense</i> )	Seedling 2 leaf to early tillering		12 weeks	4 weeks	
Field peas				9 weeks	4 weeks	
Grapes				–	–	
Green beans				5 weeks	4 weeks	
Honey dew melons*				9 weeks	–	
Lentils	Kikuyu ( <i>Pennisetum Clandestinum</i> )	Seedling to established plants		12 weeks	4 weeks	
Lucerne				–	4 weeks	
Lupins				6 weeks	4 weeks	
Medic pasture				–	14 days	
Mung beans				12 weeks	4 weeks	
Navy beans				12 weeks	4 weeks	
Non crop				–	–	
Onions				18 weeks	–	
Peanuts				11 weeks	11 weeks	
Pineapples				7 days	–	
Potatoes		10 weeks	–			
Pumpkins*		9 weeks	–			
Radish		21 days	–			
Soybeans		12 weeks	4 weeks			
Sunflowers		9 weeks	11 weeks			
Tomatoes		4 weeks	–			
Vetch		12 weeks	4 weeks			

\*Always add a surfactant/wetting agent at the recommended rate. See section on “use of surfactant/wetting agent” for details.

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

**WITHHOLDING PERIODS:**

**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.**

**GRAPES: NOT REQUIRED WHEN USED AS DIRECTED.**

**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**

eChem Quizal 200 EC Herbicide is an emulsifiable concentrate herbicide used post emergence for the control of certain grass weeds in specified broadleaf crops.

eChem Quizal 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 eChem Quizal 200 EC Herbicide to curcubit crops before the five true leaf stage.

**IMPORTANT: DO NOT** apply eChem Quizal 200 EC Herbicide before the five true leaf stage of Cucumbers, Honey Dew Melons and Pumpkins.

**Spray Preparation**

If spray equipment has been previously used for the application of 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 eChem Quizal 200 EC Herbicide. eChem Quizal 200 EC Herbicide is an emulsifiable concentrate to be mixed with water and applied as a spray. Add the required amount of eChem Quizal 200 EC 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 eChem Quizal 200 EC 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**

eChem Quizal 200 EC Herbicide may be used with either of the following adjuvant system:

1. A methylated and/or ethylated seed crop oil (eg Hastent†) at 1L/100L of final spray volume (i.e. 1%V/V).
2. Non-ionic surfactant (1000 g/L), at 200 mL/100L of final spray volume (i.e. 0.2%V/V).

**Incompatibilities**

DO NOT use eChem Quizal 200 EC Herbicide with mineral based crop oils or non-methylated spray oils of crop origin (eg Codacide† oil, Synetrol† oil) as spray adjuvants.

**Compatibilities**

eChem Quizal 200 EC 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. eChem Quizal 200 EC 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. eChem Quizal 200 EC 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 eChem Quizal 200 EC Herbicide /diflufenican. Application of eChem Quizal 200 EC 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 eChem Quizal 200 EC 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 fine to coarse droplet range. 1100 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, slowing or stopping

**Sprayer Cleanup**

Thoroughly clean all traces of eChem Quizal 200 EC 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 eChem Metsulfuron-Methyl WG Herbicide, thifensulfuron methyl, eChem Chlorsulfuron 750 WG Herbicide, Triasulfuron 750 WG Herbicide ensure that the recommended sprayer clean-up procedure of the product previously sprayed has been followed before using the equipment for the application of eChem Quizal 200 EC Herbicide.

**RESISTANT WEEDS WARNING**

**GROUP 1 HERBICIDE**

eChem Quizal 200 EC Herbicide is a member of the “Fop” (aryloxyphenoxy propionate) group of herbicides. eChem Quizal 200 EC Herbicide has the inhibitors of acetyl coA carboxylase mode of action. For weed resistance management eChem Quizal 200 EC Herbicide is a Group 1 Herbicide. Some naturally occurring weed biotypes resistant to eChem Quizal 200 EC Herbicide and other Group 1 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 Quizal 200 EC Herbicide or other Group 1 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 failure of eChem Quizal 200 EC Herbicide to control resistant weeds. Strategies to minimise the risk of herbicide resistance are available. Consult your farm chemical supplier consultant, eChem (Australia) Pty Ltd representative, local Department of Agriculture or Primary Industries.

**PRECAUTION**

**RE-ENTRY**

DO NOT allow entry into treated areas until 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 & OTHER NON-TARGET PLANTS**

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

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping land or pastures.

**PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

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

**STORAGE AND DISPOSAL**

DO NOT store tank-mixes of eChem Quizal 200 EC 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 rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean container 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:**

Store in 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 110L 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 Micro Matic valve or 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 eChem (Australia) Pty Ltd.

**SAFETY DIRECTIONS**

Harmful if inhaled or swallowed or may irritate the nose and throat and will irritate the skin. May irritate the eyes. Avoid contact with eyes and skin and do not inhale spray mist. When opening the container, mixing, loading and preparing the spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length chemical resistant gloves. If applying by spraying equipment carried on the back of the user wear cotton overalls, over normal clothing, buttoned to the neck and wrist elbow-length chemical resistant 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, New Zealand 0800 764 766. If swallowed DO NOT induce vomiting. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

**SAFETY DATA SHEET**

Additional information is listed in the safety data sheet (SDS). A safety data sheet for eChem Quizal 200 EC Herbicide is available from eChem (Australia) Pty Ltd on request.

**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.

**Combustible liquid. May be fatal if swallowed and enters airways. Toxic if inhaled**

For specialist advice in an emergency dial 1800 638 556 / 24 hours Australia wide.

