

POISON

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



QUIZALOFOP-P-ETHYL SELECTIVE HERBICIDE

ACTIVE CONSTITUENT: 99.5 g/L QUIZALOFOP-P-ETHYL
SOLVENT: 801 g/L HYDROCARBON LIQUID

GROUP A HERBICIDE

For control of certain grass weeds in
broadleaf crops
as per directions for use table

4FARMERS PTY. LTD.

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Batch Number: _____ Date of Manufacture: _____
APVMA Approval No.: 57771/0703

GENERAL INSTRUCTIONS

4Farmers Quizalofop-p-ethyl is an emulsifiable concentrate herbicide used post emergence for the control of certain grass weeds in specific broadleaf crops. 4Farmers Quizalofop-p-ethyl is a systemic herbicide, which is rapidly absorbed and readily translocated from the treated foliage to the root system and growing points of the plant. Application made to grass weeds stressed due to insufficient moisture or cold temperatures may result in unsatisfactory control.

RESISTANT WEEDS WARNING

4Farmers Quizalofop-p-ethyl Selective Herbicide is a member of the "Fop" group of herbicides. 4Farmers Quizalofop-p-ethyl herbicide has the inhibitors of acetyl CoA carboxylase mode of action. For weed resistance management 4Farmers Quizalofop-p-ethyl is a Group A herbicide. Some naturally occurring weed biotypes resistant to 4Farmers Quizalofop-p-ethyl Selective Herbicide and other inhibitors of acetyl CoA carboxylase 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 4Farmers Quizalofop-p-ethyl herbicide and other inhibitors of acetyl CoA carboxylase. Since the occurrence of resistant weeds is difficult to detect prior to use, 4Farmers Pty Ltd accepts no liability for any losses that may result from the failure of 4Farmers Quizalofop-p-ethyl herbicide to control resistant weeds. Strategies to minimise the risk of herbicide resistance are available. Consult your farm chemical supplier, consultant, local Department of Agricultural or Primary Industries, or local 4Farmers Representative.

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 cucurbit 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 4Farmers Quizalofop-p-ethyl to cucurbit crops before the five true leaf stage.

SPRAY PREPARATION

4Farmers Quizalofop-p-ethyl is an emulsifiable concentrate to be mixed with water and applied as a spray. Add the amount directly to the spray tank and mix well. If tank mixing with Benomyl or Mancozeb, add these to the spray tank and mix thoroughly PRIOR to adding 4Farmers Quizalofop-p-ethyl.

USE OF A SURFACTANT/WETTING AGENT

4Farmers Quizalofop-p-ethyl may be used with either of the following adjuvant systems:

1. A non-ionic surfactant (1000g ac/L strength) at 200mL/100L of final spray volume ie. (0.2% volume/volume).
2. A non-ionic surfactant (1000g ac/L strength) at 0.1% v/v and a mineral spray oil at 1% v/v.

For 4Farmers Quizalofop-p-ethyl and 4Farmers Quizalofop-p-ethyl tank mixes with Sertin1 186EC, Sertin1 Plus and Select1 the recommended mixture is 100mL non-ionic surfactant + 1L DC-TRATE¹

Spray Oil per 100 Litres of final spray volume. This adjuvant system provides a more robust treatment and is strongly recommended. DO NOT use the surfactant + mineral oil adjuvant system on vegetable crops, use a surfactant only. DO NOT use spray oils of crop origin (eg. Codacide oil, Synetrol oil) as spray adjuvants.

COMPATIBILITIES

4Farmers Quizalofop-p-ethyl is compatible with the Insecticides Le Mat¹ /Comrad¹, Dimethoate, Lannate¹ L (Methomyl), endosulfan, the fungicides Benomyl, and Mancozeb and the herbicides 4Farmers Diflufenican/Brodal¹ and Lontrel¹ /Archer¹ (clopyralid) when using the surfactant only adjuvant system. 4Farmers Quizalofop-p-ethyl is compatible with Sertin¹ 186EC, Sertin¹ Plus and Select¹ when using the surfactant plus spray oil adjuvant system.

When tank mixing 4Farmers Quizalofop-p-ethyl and broadleaf herbicides DO NOT use a spray oil, use a surfactant only. Application of a tankmix of 4Farmers Quizalofop-p-ethyl with 4Farmers Diflufenican or Brodal¹ may result in crop effects. The effect is temporary and usually appears as yellow or white bleaching on the leaves. New growth and subsequent yield, however will not be affected. DO NOT add crop oil to tank mixtures of 4Farmers Quizalofop-p-ethyl with 4Farmers Diflufenican or Brodal.

To minimise crop effects: - Apply 4Farmers Quizalofop-p-ethyl, a minimum of 5 days prior to 4Farmers Diflufenican/Brodal application or a minimum 10 days after 4Farmers Diflufenican/Brodal application (14-21 days if weeds have been stressed).

GROUND SPRAY

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

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET

PLANTS

Do not apply under weather conditions, or from spraying equipment that may cause spray to drift on to nearby susceptible plant/crops, cropping lands or pastures. DO NOT plant cereal crops into the treated area for a period of 18 weeks after application of 4Farmers Quizalofop-p-ethyl.

SPRAYER CLEANUP

Thoroughly clean all traces of 4Farmers Quizalofop-p-ethyl 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 previously been used for the application of sulfonyleurea herbicides eg. Ally¹ /Associate¹, Harmony¹ M, Glean¹ /Siege¹, Logran¹ /Nugran¹, Amber Post¹, ensure that the recommended sprayer cleanup procedure for the product previously sprayed has been followed before using the equipment for the application of 4Farmers Quizalofop-p-ethyl.

PROTECTION OF WILDLIFE, FISH, CRUSTACEA AND ENVIRONMENT

DO NOT contaminate dams, rivers or streams with the product or used container.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT store tank-mixes of 4Farmers Quizalofop-p-ethyl with other materials. When storing, keep from contact with fertilisers, fungicides and seeds. Triple or preferably pressure rinse containers before disposal. Add rinsings to spraytank. 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

Empty containers and products should not be burnt.

Envirodrum 100L Mini Bulk Returnable Container:

Store the original sealed Envirodrum in a cool, well ventilated area. Do not store for prolonged period in direct sunlight. Do not tamper with the Micro Matic valve or the security seal. Do not contaminate the Envirodrum with water or any other 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 according. When the content of the Envirodrum have been used, return the empty Envirodrum to the point of purchase. The envirodrum remains the property of 4Farmers Pty Ltd.

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 an 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.

BOOM SPRAYING: WINTER GROWING WEEDS

CROP	WEEDS CONTROLLED	WEED STAGE	RATE/HA	WITHHOLDING PERIOD		CRITICAL COMMENTS
				HARVEST	GRAZING	
Beetroot Cabbage Canola Carrots Cauliflower Chickpeas Clover & Sub Clover Pastures Cucumbers • Faba Beans Field Peas Honey Dew Melon • Lucerne Lupins Medic Pasture Mung Beans Navy Beans Onions Potatoes Pumpkins • Radish Tomatoes	Annual Ryegrass (<i>Lolium rigidum</i>) Brome Grasses (<i>Bromus</i> spp.)	3 leaf to early tillering	250mL or 375mL	14 days 9 weeks 11 weeks 10 weeks 14 days 12 weeks	- - - - 12 weeks 14 days	Apply when weeds are actively growing. Use higher rate under heavy weed pressure, and/or when weeds have commenced tillering.*
	Barley Grass (<i>Hordeum</i> spp.) Volunteer Barley Volunteer Wheat	3 leaf to early tillering	250mL	14 days 12 weeks 9 weeks 9 weeks	- 12 weeks 14 days -	Apply when weeds are actively growing.*
	Wild Oats (<i>Avena</i> spp.)	3 leaf to mid tillering	125mL or 250mL	- 6 weeks 12 weeks 12 weeks 18 weeks 10 weeks 9 weeks 21 days 4 weeks	12 weeks 12 weeks 14 days - - - - - - -	Apply when weeds are actively growing. Use a lower rate only under light weed pressure and/or when 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. *

BOOM SPRAYING: SUMMER GROWING WEEDS

CROP	WEEDS CONTROLLED	WEED STAGE	RATE/HA	WITHHOLDING PERIOD		CRITICAL COMMENTS
				HARVEST	GRAZING	
Beetroot Cabbage Cauliflower Carrots Cucumbers • Green Beans Honey Dew Melons • Lucerne Mung Beans Navy Beans Onions Peanuts Potatoes Pineapples Pumpkins • Radish Soybeans Sunflower Tomatoes	Awnless Barnyard Grass (<i>Echinochloa colona</i>) Barnyard Grass (<i>Echinochloa crus-galli</i>)	3 leaf to early tillering	500mL or 750mL	14 days 9 weeks 14 days 14 days 10 weeks	- - - - -	Apply when weeds are actively growing. Use higher rate under heavy weed pressure, and/or when weeds have commenced tillering.*
	Couch Grass (<i>Cynodon dactylon</i>)	2-4 leaf seedling	500mL	5 weeks 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.*
	Dinebra (<i>Dinebra retroflexa</i>)	3 leaf to early tillering	250mL or 375mL	12 weeks 12 weeks 18 weeks 11 weeks	12 weeks - - -	Apply when weeds are actively growing. Use higher rate under heavy weed pressure, and/or when weeds have commenced tillering.*
	Crowsfoot Grass (<i>Eleusine indica</i>)	2 leaf to early tillering	500mL	10 weeks 7 days 9 weeks	11 weeks - -	Apply when weeds are actively growing.*
	Foxtail Millet (<i>Setaria italica</i>)	2 leaf to early tillering	250mL or 500mL	21 days 12 weeks 9 weeks 4 weeks	- 12 weeks - -	Apply when weeds are actively growing. Use higher rate under heavy weed pressure, and/or when weeds have commenced tillering.*
	Columbus Grass (<i>Sorghum x almum</i>) Johnson Grass (<i>Sorghum halepense</i>) Liverseed Grass (<i>Urochloa panicoides</i>)	2 leaf to 3 tiller	500mL or 750mL	-	-	
	Rhodes Grass (<i>Chloris gayana</i>) Stink Grass (<i>Eragrostis cilianensis</i>)	3 leaf to early tillering	250mL or 500mL	-	-	
	Queensland Blue Grass (<i>Dichanthium sericeum</i>)		500mL	-	-	Apply when weeds are actively growing.*
	Summer Grass (<i>Digitaria ciliaris</i>)		500mL or 1000mL	-	-	Apply when weeds are actively growing. Use higher rate under heavy weed pressure, and/or when weeds have commenced tillering.*

HANDGUN SPRAYING

CROP	WEEDS CONTROLLED	WEED STAGE	RATE/HA	WITHHOLDING PERIOD		CRITICAL COMMENTS
				HARVEST	GRAZING	
Beetroot Cabbage Canola Carrots Cauliflower Chickpeas Clover and Sub clover Pastures Cucumbers • Faba Beans Field Peas Green Peas Grapes Honey Dew Melon • Lucerne Lupins Medic Pasture Mung Beans Navy Beans Non crop Onions Peanuts Pineapples Potatoes Pumpkins • Radish Soybeans Sunflower Tomatoes	Awnless Barnyard Grass (<i>Echinochloa colona</i>) Crowsfoot Grass (<i>Eleusine indica</i>)	3 leaf to early tillering	125mL	14 days 9 weeks 11 weeks 10 weeks 14 days 12 weeks	- - - - 12 weeks 14 days	Apply when weeds are actively growing. Us minimum of 800 L of prepared spray/ha. Thoroughly wet target weeds (especially well established clumps) without causing run off.*
	Paspalum (<i>Paspalum dilatatum</i>)	Seedling to Established clumps		14 days 12 weeks 9 weeks 5 weeks - 9 weeks	- 12 weeks 14 days - - -	Repeated spraying maybe necessary for perennial grass species.
	Johnson Grass (<i>Sorghum halepense</i>)	Seedling 2 leaf to early tillering		- 6 weeks -	12 weeks 12 weeks 14 days	
		Rhizome 2 leaf to early tillering	250mL	12 weeks 12 weeks -	- -	
	Kikuyu (<i>Pennisetum clandestinum</i>)	Seedling to established plants		18 weeks 11 weeks 7 days 10 weeks 9 weeks 21 days 12 weeks 9 weeks 4 weeks	11 weeks - - - - - - -	*Always add a surfactant/wetting agent at the Recommended rate – see section on "Use of Surfactant/ Wetting agent" for details.

- * ALWAYS ADD A SURFACTANT/WETTING AGENT AT THE RECOMMENDED RATE – SEE SECTION ON "USE OF SURFACTANT/WETTING AGENT" FOR DETAILS.
- * IMPORTANT DO NOT APPLY 4FARMERS QUIZALOFOP-P-ETHYL BEFORE THE FIVE TRUE LEAF STAGE OF THE CROP.

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, MUNG BEANS, NAVY BEANS, SOYBEANS: DO NOT HARVEST FOR 12 WEEKS AFTER APPLICATION.
CANOLA, PEANUTS: DO NOT HARVEST FOR 11 WEEKS AFTER APPLICATION.
LUPINS: DO NOT HARVEST FOR 6 WEEKS AFTER APPLICATION
GREEN BEANS: DO NOT HARVEST FOR 5 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: CHICKPEAS, FABA BEANS, LUCERNE, LUPINS, SOYBEANS: DO NOT GRAZE OR CUT FOR STOCK FEED FOR 12 WEEKS AFTER APPLICATION.
FIELD PEAS, CLOVER, MEDICS: DO NOT GRAZE OR CUT FOR STOCK FEED FOR 14 DAYS AFTER APPLICATION.
PEANUTS: DO NOT GRAZE OR CUT FOR STOCK FEED FOR 11 WEEKS AFTER APPLICATION.

SAFETY DIRECTIONS

Will irritate the eyes and skin. When preparing spray wear cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves and face shield or goggles. If product in eyes, wash out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a Doctor or Poisons Information Centre (Phone 13 11 26).
If swallowed, DO NOT induce vomiting. Give a glass of water.

MATERIAL SAFETY DATA SHEET

For further information refer to the Material Safety Data Sheet (MSDS). The MSDS Data sheet for 4Farmers Quizalofop-p-ethyl is available on request from 4Farmers Phone (08) 9356 3445, Fax (08) 9356 3447.

IN CASE OF EMERGENCY: PHONE (08) 9356 3445

CONDITIONS OF SALE

4Farmers Pty Ltd will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply or use of these goods other than responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by Statutes applicable to the sale or supply of these goods. To the extent allowed by such Statutes the liability of 4Farmers Pty Ltd is limited to the replacement of the goods or (at the option of 4Farmers Pty Ltd) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to 4Farmers Pty Ltd within thirty days of delivery.

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

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