# **POISON**

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



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

> **GROUP 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

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Leaflet\_0518

APVMA Approval No: 80006/100024

### **GENERAL INSTRUCTIONS**

Sabakem Quizalofop 200EC® Selective Herbicide is an emulsifiable concentrate herbicide used post emergence for the control of certain grass weeds in specified broadleaf crops.

Sabakem Quizalofop 200EC® Selective 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 curcurbit 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 Sabakem Quizalofop 200EC® Selective Herbicide to curcurbit crops before the five true leaf stage.

## **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 Sabakem Quizalofop 200EC® Selective Herbicide. Sabakem Quizalofop 200EC® Selective Herbicide is an emulsifiable concentrate to be mixed with water and applied as a spray. Add the required amount of Sabakem Quizalofop 200EC® 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 Sabakem Quizalofop 200EC® 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**

Sabakem Quizalofop 200EC® Selective Herbicide may be used with either of the following adjuvant system:

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

## **INCOMPATIBILITIES**

DO NOT use Sabakem Quizalofop 200EC® Selective Herbicide with mineral based crop oils (eg D-C-Trate†) or non-methylated spray oils of crop origin (eg Codacide† oil, Synetrol<sup>†</sup> oil) as spray adjuvants.

## **COMPATIBILITIES**

Sabakem Quizalofop 200EC® 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. Sabakem Quizalotop 200EC® 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. Sabakem Quizalofop 200EC® 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 Sabakem Quizalofop 200EC® Selective Herbicide/diflufenican.

Application of Sabakem Quizalofop 200EC® 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 Sabakem Quizalofop 200EC® 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. 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 CLEAN UP**

Thoroughly clean all traces of Sabakem Quizalofop 200EC® 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. Sabakem Metsulfuron 600 WG® Herbicide, thifensulfuron methyl, Sabakem Chlorsulfuron 750 WG® Selective 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 Sabakem Quizalofop 200EC® Selective Herbicide.

### **RESISTANT WEEDS WARNING**

Sabakem Quizalofop 200EC® Selective Herbicide is a GROUP **HERBICIDE** member of the "Fop" (aryloxyphenoxy propianate) group of herbicides. Sabakem Quizalofop 200EC® Selective Herbicide has the inhibitors of acetyl coA carboxylase mode of action. For weed resistance management Sabakem Quizalofop 200EC® Selective Herbicide is a Group A Herbicide. Some naturally occurring weed biotypes resistant to Sabakem Quizalofop 200EC® 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 Sabakem Quizalofop 200EC® Selective Herbicide or other Group A Herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Sabakem Pty Ltd accepts no liability for any losses that may result from failure of Sabakem Quizalofop 200EC® Selective Herbicide to control resistant weeds. Strategies to minimise the risk of herbicide resistance are available. Consult your farm chemical supplier consultant, Sabakem representative, local Department of Agriculture or Primary Industries.

Re-Entry Period: 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 AND OTHER NON-TARGET PLANTS

DO NOT plant cereal crops into the treated area for a period of 18 weeks after application of Sabakem Quizalofop 200EC® Selective 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 waterways with the chemical or used

containers.

## STORAGE AND DISPOSAL

DO NOT store tank-mixes of Sabakem Quizalofop 200EC® 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, 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.

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 Sabakem Pty Ltd.

Refillable Containers (1000L only): Store in closed, original container in a cool, wellventilated 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.

## **SAFETY DIRECTIONS**

Will irritate the eyes and skin. Avoid contact with eyes. When opening the container, preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and 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.

## FIKST 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.

## **SAFETY DATA SHEET**

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

## **CONDITIONS OF SALE**

The use of this product is beyond the control of Sabakem Pty Ltd. No warranty is expressed or implied regarding the suitability or efficiency for any purpose for which it is used by the buyer. Sabakem Pty Ltd accepts no responsibility for any consequences resulting from the use of this product. Sabakem Pty Ltd will not be held liable for any loss, injury or damage arising from the sale, supply or use of this product, whether through negligence or otherwise. No responsibility will be accepted for any consequences whatsoever resulting from the use of this product.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Combustible liquid. May be fatal if swallowed and enters airways. Toxic if inhaled.

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† Not a Sabakem Pty Ltd trademark

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SABAKEM QUIZALOFOP 200EC 12PP LEAFLET SIZE: 236mm (w) x 399mm (d) - FOLDS TO 118mm (w) x 133mm (d)

### DATE: 30/05/18 COLOUR: BLACK

### **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 clobs that are stressed by any cause (such as severe cold weather, disease, drought of 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 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 50L prepared spray/ha – see section "Ground Spraying"

BOOM SPRAYING: WINTER GROWING WEEDS: ALL STATES								
WEEDS CONTROLLED	WEEDS STAGE	RATE/Ha	WITHHOLDING PERIOD		CRITICAL COMMENTS			
			HARVEST	GRAZING				
Annual Ryegrass (Lolium rigidum), Brome Grasses (Bromus spp.)	3 leaf to early tillering	150mL or 190mL	9 weeks 11 weeks 4 10 weeks	  4 weeks 	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 125mL 14 days 12 weeks - 14 days	4 weeks 14 days	Apply when weeds are actively growing*.					
Wild Oats (Avena spp.)	3 leaf to mid tillering	9 weeks 4 weeks 9 weeks 12 weeks 4 weeks 6 weeks 4 weeks - 14 days 12 weeks 4 weeks 12 weeks 4 weeks 12 weeks 4 weeks 10 weeks 18 weeks 19 weeks 19 weeks 10 weeks 10 weeks 21 days 4 weeks	4 weeks 4 weeks 4 weeks 4 weeks 14 days 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*.				
	Annual Ryegrass (Lolium rigidum), Brome Grasses (Bromus spp.) Barley Grass (Hordeum spp.), Volunteer Barley, Volunteer Wheat Wild Oats	MEEDS CONTROLLED  Annual Ryegrass (Lolium rigidum), Brome Grasses (Bromus spp.)  Barley Grass (Hordeum spp.), Volunteer Barley, Volunteer Wheat  Wild Oats  WEEDS STAGE  3 leaf to early tillering  Willering  3 leaf to early tillering	WEEDS CONTROLLED  WEEDS STAGE  RATE/Ha  Annual Ryegrass (Lolium rigidum), Brome Grasses (Bromus spp.)  Barley Grass (Hordeum spp.), Volunteer Barley, Volunteer Wheat  Wild Oats  RATE/Ha  150mL or 190mL 125mL 125mL 125mL	WEEDS CONTROLLEDWEEDS STAGERATE/HaWITHHOLDAnnual Ryegrass (Lolium rigidum), Brome Grasses (Bromus spp.)3 leaf to early tillering150mL or 190mL14 days 9 weeks 11 weeks 10 weeks 11 weeks 10 weeks 12 weeks 12 weeks 12 weeks 9 weeks 9 weeks 12 weeks 10 weeks 10 weeks 11 weeks 12 weeks 12 weeks 12 weeks 13 weeks 14 days 15 weeks 16 weeks 17 weeks 18 weeks 	Name			

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

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

<b>BOOM SPRAYING: SUMM</b>	IER GROWING WEEDS: ALL STATES					
CROPS	WEEDS CONTROLLED	WEEDS STAGE	RATE/Ha	WITHHOLDING PERIOD		CRITICAL COMMENTS
				HARVEST	GRAZING	
Cabbage (Echinochle Cauliflower Barnyard G Carrots (Echinochle Cucumbers <sup>®</sup> Couch Gras Green beans Honey dew melons <sup>®</sup> Lucerne Mung beans Navy beans Onions Crowsfoot Peanuts (Echinochle	Awnless Barnyard Grass ( <i>Echinochloa colona</i> ), Barnyard Grass ( <i>Echinochloa crusgalli</i> )	3 leaf to early tillering	250mL or 375mL	14 days 9 weeks 14 weeks 10 weeks 14 days 5 weeks 9 weeks - 12 weeks 12 weeks 18 weeks 10 weeks 7 days 9 weeks 21 days 12 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*.
	(Cynodon dactylon)	2-4 leaf seedling	250mL			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 (Dinebra retroflexa)	3 leaf to early tillering	125mL or 190mL			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	250mL			Apply when weeds are actively growing*.
Potatoes Pineapples PumpkinsÐ	Foxtail Millet (Setaria italica)	2 leaf to early tillering	125mL or 250mL			Apply when weeds are actively growing. Use higher rate under heavy weed pressure, and/or when weeds have commenced tillering*.
Radish Soybeans Sunflower Tomatoes	Columbus Grass (Sorghum x almum), Johnson Grass (Sorghum halepense), Liverseed Grass (Urochloa panicoides)	2 leaf to 3 tiller	250mL or 375mL			
	Rhodes Grass ( <i>Chloris gayana</i> ), Stink Grass ( <i>Eragrostis cilianensis</i> )	3 leaf to early tillering	125mL or 250mL			
	Queensland Blue Grass (Dichanthium sericeum)	3 leaf to early tillering	250mL			Apply when weeds are actively growing*.
	Summer Grass ( <i>Digitaria ciliaris</i> )	3 leaf to early tillering	250mL or 500mL			Apply when weeds are actively growing. Use higher rate under heavy weed pressure, and/or when weeds have commenced tillering*.

<sup>\*</sup>Always add a surfactant/wetting agent at the recommended rate. See section on "use of surfactant/wetting agent" for details.

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

CROPS	WEEDS CONTROLLED	WEEDS STAGE	RATE/Ha	WITHHOLDING PERIOD		CRITICAL COMMENTS
				HARVEST	GRAZING	
Beetroot Cabbage Cauliflower Canola Carrots Chickpeas Clover & subclover pastures Cucumbers® Faba beans Field peas Grapes Green beans Honey dew melons® Lentils Lucerne Lupins Medic pasture Mung beans Non crop Onions Peanuts Pineapples Potatoes Pumpkins® Radish Soy beans Sunflowers Tomatoes Vetch	Awnless Barnyard Grass (Echinochloa colona), Crowsfoot Grass (Eleusine indica) Paspalum (Paspalum dilatatum)  Johnson Grass (Sorghum halepense)  Kikuyu (Pennisetum Clandestinum)	3 leaf to early tillering  Seedling to Established Clumps Seedling 2 leaf to early tillering Rhizome 2 leaf to early tillering Seedling to Established plants	65 mL			Apply when weeds are actively growing. Use a minimum of 800L of prepared spray/ha.  Thoroughly wet target weeds (especially well established clumps) without causing run-off.  Repeat spraying 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.
	piants		12 weeks 12 weeks 12 weeks 13 weeks 14 weeks 7 days 10 weeks 9 weeks 21 days 12 weeks 9 weeks 4 weeks	14 days 4 weeks 4 weeks 11 weeks 4 weeks 11 weeks 4 weeks		

PIMPORTANT: DO NOT apply Sabakem Quizalofop 200EC® 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 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.