



Australian Pesticides &
Veterinary Medicines Authority

Product Name: SABAKEM PARAQUAT 250SL HERBICIDE
APVMA Approval No: 69274/154430

Label Name:	SABAKEM PARAQUAT 250SL HERBICIDE
Signal Headings:	DANGEROUS POISON KEEP OUT OF REACH OF CHILDREN CAN KILL IF SWALLOWED DO NOT PUT IN DRINK BOTTLES KEEP LOCKED UP READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Constituent Statements:	ACTIVE CONSTITUENT: 250 g/L PARAQUAT PRESENT AS PARAQUAT DICHLORIDE
Mode of Action:	GROUP 22 HERBICIDE
Statement of Claims:	For the control of certain grasses and broadleaf weeds as per the Directions for Use.
Net Contents:	5L - 1000 L
Restrains:	This section contains file attachment.
Directions for Use:	This section contains file attachment.
Other Limitations:	FOR USE ONLY AS AN AGRICULTURAL HERBICIDE. THIS PRODUCT IS TOO HAZARDOUS TO BE USED IN THE HOME GARDEN.

Withholding Periods:	GRAZING: LIVESTOCK: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 1 DAY AFTER APPLICATION. HORSES: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION. HARVEST: FIELD PEAS, CHICKPEAS, FABA BEANS, LUPINS, LENTILS: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION. OTHER USES: NOT REQUIRED WHEN USED AS DIRECTED.
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Trade Advice:	LIVESTOCK DESTINED FOR EXPORT MARKETS The grazing withholding period only applies to stock slaughtered for the domestic market. Some export markets apply different standards. To meet these standards, ensure that in addition to complying with the grazing withholding period, the export slaughter interval is observed before stock are sold or slaughtered. EXPORT SLAUGHTER INTERVAL (ESI 13 DAYS) Livestock that has grazed on or been fed treated crops should be placed on clean feed for 13 days prior to slaughter. EXPORT OF TREATED PRODUCE Growers should note that maximum residue limits (MRLs or import tolerances may not exist in all markets for Field peas, Lupins, Lentils, Chickpeas or Faba beans treated with SABAKEM PARAQUAT 250SL HERBICIDE. If you are growing Field peas, Lupins, Lentils, Chickpeas or Faba beans for export, please check with Sabakem Pty Ltd for the latest information on MRLs and import tolerances before using SABAKEM PARAQUAT 250SL HERBICIDE.
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General Instructions:	This product kills annual grasses and most annual broadleaf weeds (excluding capeweed) in specified situations and should not be used for any other purpose. Quickly kills green plant tissue on contact. Is immediately inactivated in the soil or heavy dew. At spraying, weeds should be growing vigorously and must not be covered with soil or heavy dew. The principle of selective weed control with this product is that annual weeds are killed but perennial plants and clovers recover after an initial scorch. The control of annual weeds by spraying with this product will allow the desirable perennial species to thicken up at the expense of the weeds. Moisture and fertility should not be limiting at spraying and the proportion of desirable species must be great enough for them to fill in the areas previously occupied by weeds. Long-term weed control can be obtained following the quick knockdown given by this product if it is combined with soil residue chemicals. Read all safety directions before commencing work. 1. Mixing Add the required quantity of product to water in the spray tank and agitate to give even mixing. Agitate again if left standing. 2. Clean water: Mix this product with clean water only. Water should be clean and free from clay, silt and algae. Providing it meets this requirement, saline water, water collected from roofs, bore water, dam water and water from creeks may be used.
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3. Application:

i) Cereals and broadacre spraying:

Use only through a properly calibrated boom spray which should be fitted with flat fan jets and adjusted to a height to give at least double overlap of the spray at the top of the weeds being sprayed. It is essential that a good marking or guidance system be used. If a disc marker is used, it must be mounted so as to turn the soil back on to the area sprayed. It is essential to obtain good leaf coverage with the spray and volumes of dilute spray must be adjusted according to density of weed growth. 100L/ha may be used for seedlings or well grazed weeds up to 2cm high. For plant height 2 to 5cm, use 150 L/ha and up to 6 to 10cm use 200 L/ha. Spray volumes may be as low as 50 L/ha (30 L/ha in WA) for weed growth below 5cm high, or for spray topping. Equipment must be appropriate to this volume, properly calibrated and fitted with spraying tips designed to give spray droplets not smaller than a MEDIUM spray droplet.

ii) High volume application:

Higher volumes will generally be required to give good coverage of weed growth in situations other than those specified under cereals and other broadacre crops.

iii) Wash spray equipment with clean water immediately after use. This product is highly corrosive to metals, particularly galvanised iron and aluminium and should not be left for long periods in tanks or equipment made of these materials.

Resistance Warning:

RESISTANT WEEDS WARNING

GROUP 22 HERBICIDE

SABAKEM PARAQUAT 250SL HERBICIDE is a member of the bipyridyl group of herbicides. SABAKEM PARAQUAT 250SL HERBICIDE has the "photosynthesis at photosystem 1 inhibitor" mode of action. For weed resistance management SABAKEM PARAQUAT 250SL HERBICIDE is a Group 22 Herbicide. Some naturally-occurring weed biotypes resistant to SABAKEM PARAQUAT 250SL HERBICIDE and other Group 22 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 PARAQUAT 250SL HERBICIDE or other "photosynthesis at photosystem I inhibitor" or other Group 22 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 the failure of SABAKEM PARAQUAT 250SL HERBICIDE to control resistant weeds.

Precautions:

RE-ENTRY PERIOD:

DO NOT allow entry to treated areas until the spray has dried unless using an enclosed cab or wearing cotton overalls and gloves. Workers performing scouting and hand-set irrigation activities must comply with the re-entry periods specified below.

Rate	Activity	
	Scouting (Days)	Irrigation (Days)
Up to 800 mL/ha	0	0
Up to 1.6 L/ha	0	3
Up to 4 L/ha	6	11

PRECAUTIONS:

This formulation should not be applied on or near water which is used for human consumption.

Protections:	PROTECTION OF LIVESTOCK This formulation should not be applied on or near water which is used for livestock watering. PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND THE ENVIRONMENT Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers. This formulation should not be applied on or near water which is used for commercial or recreational fishing. Toxic to birds and native mammals. However, the use of this product as directed is not expected to have adverse effects on birds and native mammals. Toxic to beneficial arthropods. Not compatible with integrated pest management (IPM) programs utilising beneficial arthropods. Minimise spray drift to reduce harmful effects on beneficial arthropods in non-crop areas.
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Storage and Disposal:	Store in the closed, original container in a dry, cool, well-ventilated locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. 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.
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Safety Directions:	Very dangerous, particularly the concentrate. Do not swallow. The product, particularly the concentrate, can kill if swallowed, absorbed through the eyes or absorbed by skin contact. The liquid can cause burns particularly to the eyes. Will irritate the nose, throat and skin. When handling, do not touch or rub eyes, nose or mouth with hand. Avoid contact with eyes and skin, open wounds and clothing. Protect eyes while using. If clothing becomes contaminated with product or with wet spray remove clothing immediately. Do not inhale spray mist. Do not allow children to play with containers or any equipment that is used. When connecting, disconnecting and cleaning equipment wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, impervious footwear, elbow-length chemical resistant gloves and a full-face respirator with canister specified for paraquat/diquat OR half face-piece respirator with canister specified for paraquat/diquat and face shield or goggles. When applying by hand wand wear cotton overalls, over normal clothing, buttoned to the neck and wrist and a washable hat, impervious footwear, elbow-length chemical resistant gloves and a full-face piece respirator with a canister specified for paraquat/diquat. 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, respirator (and if rubber wash with detergent and warm water), clothing and footwear.
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First Aid Instructions:	If poisoning occurs, get to a doctor or hospital quickly. If sprayed on skin, wash thoroughly. If sprayed in mouth, rinse mouth with water. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
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First Aid Warnings:	
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RESTRAINTS:

DO NOT remove contents except for immediate use.

DO NOT continue to use if eye irritation or bleeding from the nose occurs.

DO NOT apply by aircraft, misting machines or manually pressurised handheld equipment.

DO NOT apply by spraying equipment carried on the back of the user.

DO NOT use open mixing/loading equipment. Closed mixing and loading **MUST** be used.

DO NOT add wetter unless spraying at high volume. Where SABAKEM PARAQUAT 250SL HERBICIDE is mixed with water at less than 400mL/100L of water, add 60mL 1000g/L NON-IONIC SURFACTANT per 100L of spray.

DO NOT apply if heavy rains or storms are forecast within 3 days.

DO NOT spray plants which are waterlogged, under stress of any kind or covered with soil or dust.

DO NOT spray plants covered with heavy dew, but rain following spraying will not affect results.

DO NOT irrigate to the point of field runoff for at least 3 days after application.

DO NOT sow or cultivate for 1 hour after spraying but operations should commence within 7 days.

For small scale applications up to 6 ha per day:

DO NOT apply using open cab equipment unless using a PF10 respirator.

For applications greater than 6 ha per day:

DO NOT apply using open cab equipment. Enclosed cab applications **MUST** be used.

For hand spray applications:

DO NOT use hand wand sprays by spraying out of the window of a vehicle.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at 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 advisory buffer zones in the relevant buffer zone table/s 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 surface temperature inversion conditions present at the application site during the time of application. These conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

DO NOT apply by a boom sprayer unless the following requirements are met:

- spray droplets not smaller than a MEDIUM spray droplet size category
- minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for boom sprayers') are observed.

Buffer zones for boom sprayers						
Application rate	Boom height above the target canopy	Mandatory downwind buffer zones (metres)				
		Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
Up to 800mL/ha	0.5 m or lower	5	250	0	0	0
Up to 600mL/ha	0.5 m or lower	0	160		0	
Up to 400mL/ha	0.5 m or lower	0	100		0	
	1.0 m or lower	20	325		15	

DIRECTIONS FOR USE

CROP USE OR SITUATIONS	WEEDS	STATE	RATE L/ha	CRITICAL COMMENTS
Aid to cultivation to minimise cultivation and prepare a clean bed for sowing	Wild oats at 2 to 5 leaf stage in autumn / winter	QLD, VIC, TAS, SA, NT only	600 mL to 800 mL	Apply by ground boom only. Where cultivation follows spraying, it may commence 1 hour after spraying but should be commenced within 7 days. Where heavy weed growth is present at spraying a better seed bed will result if cultivation is delayed 3-5 days. Wild oats must have at least 2 leaves. Pasture: Remains of old pasture should be reduced by heavy grazing. Remove stock 3 to 5 days before spraying to allow fresh growth.
		NSW, ACT only	600 mL	
Rice	Annual grass and broadleaf weed control	QLD, NSW, NT only	800 mL	Apply by ground boom only. Post-sowing, pre-crop emergence.
Spray topping to reduce seed set Chickpeas, Faba beans, field peas, lentils, lupins	Annual ryegrass	All states	400 mL or 800 mL	As an aid in managing annual ryegrass resistance. For use on escapes from a previous herbicide application in the current crop. Apply by ground boom only in 50 - 100L/ha. Spray with a calibrated boom spray raised to give double overlap at the level of the ryegrass seed heads. Spray the crop when the last ryegrass seed heads at the bottom of the plant have emerged and the majority are at or just past flowering (with anthers present or glumes open) but before haying off is evident – usually October to November. Reduction in crop yield may occur especially if the crop is less advanced relative to the ryegrass, that is, if crops have a majority of green immature pods.
Peanuts Post-emergence (in crop)	<i>Datura</i> spp. (2-4 leaf)	QLD, NT only	400 mL	Apply by ground boom only. Spray peanuts up to 7 to 8 leaf stage but before majority of plants flowering. Foliage will be scorched following application but plants recover rapidly. Apply in 200 to 250 L/ha for thorough coverage of weed foliage. A dense canopy of weeds may reduce weed control due to shielding. Add 60mL 1000g/L NON-IONIC SURFACTANT / 100L of spray mix. Do not use alkaline or anionic wetting agents.
	Annual ground cherry (2-3 leaf)		600 mL	
	Apple of Peru (2-4 leaf)			
	Milkweed (2-3 leaf)			
	Stagger weed (2-3 leaf)		800 mL	

	Blue heliotrope (2-3 leaf) Wandering Jew (2-3 leaf) Anoda weed (2-4 leaf)			
Non-Agricultural situations, around sheds, roadways, paths	Annual weed control	All States	1.6 to 4 L/ha OR 200 mL/100 L *	Apply by mechanically pressurised hand wand only. DO NOT use more than 15L of undiluted product per day. Spray to thoroughly wet weed growth. SABAKEM PARAQUAT 250SL HERBICIDE can be combined with soil residual herbicides SABAKEM SIMAZIINE 900WG HERBICIDE or SABAKEM ATRAZINE 900WG HERBICIDE to give rapid knockdown and prolonged weed control. Use the higher rate for dense weed growth.
	Columbus Grass	NSW only	*Spot Spraying 160 mL/100 L plus 1 L 745 g/L flupropanate	Apply by mechanically pressurised hand wand only. DO NOT use more than 15L of undiluted product per day.
Firebreaks	Knock down weed growth to eliminate fire hazard or assist firebreak burn	All States	1.6 L to 4 L	Apply by mechanically pressurised hand wand only. DO NOT use more than 15L of undiluted product per day. Apply mid-winter to early summer. Use the higher rate for dense weed growth. After desiccation is complete the sprayed area may be burnt (normally 7 to 10 days after spraying). SABAKEM PARAQUAT 250SL HERBICIDE can be combined with soil residual herbicides SABAKEM SIMAZIINE 900WG HERBICIDE or SABAKEM ATRAZINE 900WG HERBICIDE to give rapid knockdown and prolonged weed control.
* If SABAKEM Paraquat 250 Herbicide rate is less than the ratio 400 mL/100 L add 60 mL of 1000 g/L non-ionic surfactant per 100 L of spray mix.				

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