

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

QA

Paraquat 250 SL

HERBICIDE

ACTIVE CONSTITUENT:

250 g/L PARAQUAT present as PARAQUAT DICHLORIDE

GROUP **22** HERBICIDE

QA Paraquat 250 SL Herbicide is for the control of certain grasses and broadleaf weeds as per directions for use.

APVMA Approval No.: 84794/RV2026

SL Formulation Type
Soluble Liquid
Concentrate

**BE PROUDLY
AUSTRALIAN**

Quantum Agrosciences Holdings Pty Ltd | ABN 79 680 792 625
Suite 2, Level 7, 330 Collins Street, Melbourne, Victoria 3000
T: 1300 658 988 | www.quantumag.au



DIRECTIONS FOR USE

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 Paraquat 250 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 that 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	

CROP USE OR SITUATION	WEEDS CONTROLLED	STATE
Aid to Cultivation To minimise cultivation and prepare a clean bed for sowing.	Wild oats at 2-5 leaf stage in autumn / winter	Qld, Vic, SA, Tas, NT only
		NSW, ACT only
Rice	Annual grass and broadleaf weed control	Qld, NSW, NT only
Spray topping to reduce seed set Chickpeas, Faba beans, Field peas, Lentils. Lupins, Vetch	Annual ryegrass	All States
Peanuts Post-emergence (in-crop)	<i>Datura</i> spp. (2-4 leaf)	
	Annual ground cherry (2-3 leaf) Apple-of-Peru (2-4 leaf) Milkweed (2-3 leaf)	
	Stagger weed (2-3 leaf) Blue heliotrope (2-3 leaf) Wandering Jew (2-3 leaf) Anoda weed (2-4 leaf)	

RATE/ha	CRITICAL COMMENTS
600 to 800 mL	Apply by ground boom only.
600 mL	Where cultivation follows spraying, it may commence one hour after spraying but should be completed within 7 days. Where heavy weed growth is present at spraying a better seedbed will result if cultivation is delayed 3 - 5 days. Pasture: Remains of old pasture should be reduced by heavy grazing. Remove stock 3 - 5 days before spraying to allow fresh growth.
800 mL	Apply by ground boom only. Post- sowing, pre-crop emergence.
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 at the rate of 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.
400 mL	Apply by ground boom only.
600 mL	Spray peanuts up to 7 - 8 leaf stage but before majority of plants flowering. Foliage will be scorched following application, but plants recover rapidly. Apply in 200 - 250L/ ha for thorough coverage of weed foliage. A dense canopy of weeds may reduce weed control due to shielding. Add 60 mL 1000g/L non-ionic wetter per 100 L of spray mix. Do not use alkaline or anionic wetting agents.
800 mL	

CROP USE OR SITUATION	WEEDS CONTROLLED	STATE
Non-Agricultural situations, around sheds, roadways, paths	Annual weed control	All States
	Columbus Grass	NSW only
Firebreaks	Knock down weed growth to eliminate fire hazard or assist firebreak burn	All States
* If QA Paraquat 250 SL Herbicide rate is less than the ratio 400 mL/100 L add 100 mL 1000 g/L non-ionic wetter 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.

**FOR USE ONLY AS AN AGRICULTURAL HERBICIDE.
DO NOT USE THIS PRODUCT IN THE HOME GARDEN.**

WITHHOLDING PERIODS:

GRAZING:

LIVESTOCK: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 1 DAYS 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.

RATE/ha	CRITICAL COMMENTS
1.6 to 4 L/ha OR 200 ml/100L *	Apply by mechanically pressurised hand wand only. DO NOT use more than 15L of undiluted product per day. Spray to thoroughly wet weed growth. QA Paraquat 250 SL Herbicide can be combined with soil residual herbicides simazine (900 g/kg) or atrazine (900 g/kg) to give rapid knockdown and prolonged weed control. Use the higher rate for dense weed growth.
*Spot Spraying 160mL/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.
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) . QA Paraquat 250 SL Herbicide can be combined with soil residual herbicides simazine (900 g/kg) or atrazine (900 g/kg) to give rapid knockdown and prolonged weed control.

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 QA Paraquat 250 SL Herbicide. If you are growing Field peas, Lupins, Lentils, Chickpeas or Faba beans for export, please check with Quantum Agrosiences Holdings Pty Ltd for the latest information on MRLs and import tolerances before using QA Paraquat 250 SL Herbicide.

GENERAL DIRECTIONS

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. 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 residual chemicals.

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.

3. Application

(i) Cereals and Broadacre Spraying

Use only through a properly calibrated boom spray that 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. 100 L/ha may be used for seedlings or well grazed weeds up to 2 cm high. For plant height 2 - 5 cm use 150 L/ha and up to 6 - 10 cm use 200 L/ha. Spray volumes may be as low as 50 L/ha (30 L/ha in WA) for weed growth below 5 m 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 size category

(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.

RESISTANT WEEDS WARNING

QA Paraquat 250 SL Herbicide is a member of the bipyrindyl group of herbicides. QA Paraquat 250 SL Herbicide acts as the inhibitor of photosynthesis at Photosystem I mode of action. For weed resistance management QA Paraquat 250 SL Herbicide is a Group 22 herbicide. Some naturally occurring weed biotypes resistant to QA Paraquat 250 SL 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 QA Paraquat 250 SL Herbicide or other Group 22 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Quantum Agrosiences Holdings Pty Ltd accepts no liability for any losses that may result from the failure of QA Paraquat 250 SL Herbicide to control resistant weeds.

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.

Activity		
Rate	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

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

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 ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used container. 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.

STORAGE AND DISPOSAL

Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. Store in the closed, original container in a dry, 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.

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

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respirator with canister specified for paraquat/diquat and face shield or goggles. When applying by hand 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.

FIRST AID

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.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet (SDS) which is available from the supplier.

CONDITIONS OF SALE: Quantum Agrosiences Holdings Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on Quantum Agrosiences Holdings Pty Ltd's skill or judgement in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Quantum Agrosiences Holdings Pty Ltd has any authority to add to or alter these conditions.

Additional information required under the Globally Harmonised System (GHS) classification of the substance/mixture:

Toxic in contact with skin. Fatal if inhaled. Causes damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life with long-lasting effects.

Do not breathe mist, vapours or spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. In case of inadequate ventilation wear respiratory protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF INHALED: Remove victim to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage. Store locked up.



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