

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

QA
Diuron 900 WG

HERBICIDE

ACTIVE CONSTITUENT: 900 g/kg DIURON

GROUP **5** HERBICIDE

For the control of weeds in asparagus, bananas, cereals, cotton, lupins, sugar cane, as specified in the Directions for Use table.

APVMA Approval No.: 92095/149926

WG Formulation Type
Water Dispersible
Granule

**BE PROUDLY
AUSTRALIAN**

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DIRECTIONS FOR USE:**RESTRAINTS:**

- DO NOT use in water-logged areas.
- DO NOT apply if greater than 50 mm rainfall is expected within 3 days of application.
- DO NOT irrigate within 3 days of application.
- DO NOT apply to fields where the slope exceeds 3%.
- DO NOT spot spray more than 5% of total farm areas.
- DO NOT apply more than once per calendar year.

Cotton

DO NOT use in cotton UNLESS ALL irrigation tailwater and/or up to 25 mm rainfall can be captured and held on farm.

Irrigation Channels and Drains

DO NOT use in irrigation channels or drains UNLESS ALL irrigation tailwater and rainfall can be captured and held on farm.

Desert Channels (bore drains)

DO NOT apply between 1 December and 30 March.

DO NOT open drains for 72 hours following treatment.

SPRAY DRIFT RESTRAINTS

DO NOT apply by air.

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 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 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 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

Situation	Rate ac/ha	Mandatory Downwind buffer zone (m)	
		Natural Aquatic Areas	Vegetation Areas
Wheat, barley, triticale, cereal rye, oats (WA only)	250 – 500	30	60
Wheat, barley, triticale and oats (WA only)	180 – 250	15	30
Wheat, barley, oats (NSW, Vic, ACT, SA only)	450	25	50
Wheat and barley – SA only	640 – 880	50	100
Wheat and barley – NSW, Vic, ACT, SA only	250	15	30
Summer fallows – SA only	250	15	30
Cotton	900 – 1800	100	200
Lupins – WA only	990	30	80
Bananas	250 – 450	25	50
Sugarcane	1800	100	200
Asparagus	1800	100	200

Crop/Situation	Weeds Controlled	States	Rate/ha	Critical Comments
Asparagus	Annual broadleaf weeds and some annual grasses	Vic only	1.5 to 2 kg	Apply in established beds after they have been "hilled up" and before emergence of spikes. This will give 10 to 14 weeks freedom from weeds. Post-emergence application may be made, but the spray should be directed so as to contact only the base of the stems. Use higher rates on heavier soils. DO NOT use on seedling asparagus.
Bananas	Amaranthus, Barley Grass, Barnyard Grass, Capeweed, Cobbler's Pegs, Crowsfoot Grass, Fat Hen, Guinea Grass, Mustard, Pigweed, Prince of Wales Feather, Rye Grass, Sow Thistle, Summer Grass, Wild Oats, Wild Radish, Wild Turnip	Qld, NSW, ACT only	275 – 500 g Plus 1.2 or 1.6 L/ha Paraquat (250 g/L)	Add to Paraquat to enhance weed control under favourable growing conditions and in open sunny conditions. QA Diuron 900 WG Herbicide at rates up to 500 g/ha can be blanket sprayed. Use a directed spray for higher rates of QA Diuron 900 WG Herbicide. Complete spray coverage is essential. For grasses and broadleaved weeds up to 5 cm high use a minimum of 250 L spray solution/ha, increase to 350 L/ha for weeds up to 10 cm high. Use a minimum spray volume of 400 L/ha for weeds >10 cm high and for dense mature weeds. Refer to Paraquat 250 label for rates and full directions. If Paraquat (250 g/L) rate is less than the ratio 500 mL/100 L, add 100 mL non-ionic surfactant 600 g/L or 60 mL non-ionic surfactant 1000 g/L per 100 L spray mix.
Cotton	Annual broadleaf weeds and some annual grasses	Qld, NSW, ACT only	1 - 2 kg	Pre-emergence: Apply at planting or within 7 days of planting and prior to cotton emergence. Seed should be planted at least 4 to 5 cm deep and soil compacted over seeds by a normal planter packer wheel. Use high rate on soils high in clay or organic matter content. Do not use on light, sandy soils as injury to crop may result. Do not make a second pre-emergence application to the same field during the same crop year as injury to the crop may result. Apply in 300 to 450 L water/ha. Post-emergence (lay-by): Use the higher rate on heavier soil types high in clay and/or organic matter. DO NOT use on light, sandy soils low in organic matter as injury to the cotton may result. Apply when cotton is at least 30 cm high, or immediately after last cultivation. If emerged annual weeds (15 cm or less in height) are present add 170 mL non-ionic surfactant 600 g/100 L water to the spray solution. Apply QA Diuron 900 WG Herbicide as a directed spray to cover the area beneath cotton plants and between rows. Avoid spray contact or drift on to cotton plants as injury may result. DO NOT apply more than once per season. DO NOT re-plant treated areas to any crop within one year after last application as injury may result except cotton, corn, or sorghum (grain sorghum only) which may be planted in the Spring following treatment. Apply 300 - 500 L water/ha.
Lupins (on light soils only)	Annual Ryegrass, Capeweed, Clovers, Doublegee, Medics, Wild Radish, Wild Turnip. Suppression of Dock, Sorrel, Wireweed, Wild Oats and Brome Grass	WA only	1.1 kg	Use through boom spray equipment only. Apply in a minimum of 150 L water/ha. Higher volumes of water will give more even application. Must be applied prior to crop emergence. DO NOT use on white or grey sands.

Crop	Weed	State	Rate/ha	Critical Comments
Sugar cane	Amaranthus, Barley Grass, Barnyard Grass, Capeweed, Cobbler's Pegs, Crowsfoot Grass, Fat Hen, Guinea Grass, Mustard, Pigweed, Prince of Wales Feather, Ryegrass, Sowthistle, Summer Grass, Wild Oats, Wild Radish, Wild Turnip	Qld, NSW only	1.9 kg/ha	<p>Post-emergence of cane:</p> <p>APPLY ONLY as a directed band spray over a maximum of 60% of the crop area.</p> <p>DO NOT apply in the Wet Tropics.</p> <p>DO NOT apply in the Burdekin between 1 January and 29 February.</p> <p>DO NOT apply in Mackay/Whitsunday between 1 December and 30 April.</p> <p>DO NOT apply in Mary-Burnett between 1 November and 29 February.</p> <p>DO NOT apply in NSW between 1 November and 30 April.</p> <p>Soil surface must be moist at all times of application. Rain or irrigation is required within 10 days of application.</p> <p>If weeds at early post-emergence stage addition of non-ionic surfactant 600 g/L at 250 mL/100 L of water will enhance activity, but direct spray below cane leaves.</p>
			275 g– 1.9 kg Plus 1.2 - 1.6 L Paraquat (250 g/L)	<p>APPLY ONLY as a directed band spray over a maximum of 60% of the crop area.</p> <p>DO NOT apply in the Wet Tropics.</p> <p>DO NOT apply in the Burdekin between 1 January and 29 February.</p> <p>DO NOT apply in Mackay/Whitsunday between 1 December and 30 April.</p> <p>DO NOT apply in Mary-Burnett between 1 November and 29 February.</p> <p>DO NOT apply in NSW between 1 November and 30 April.</p> <p>Add to Paraquat to enhance weed control under favourable growing conditions and in open sunny conditions. QA Diuron 900 WG Herbicide at rates up to 500 g/ha can be blanket sprayed. Use a directed spray for higher rates of QA Diuron 900 WG Herbicide. Complete spray coverage is essential. For grasses and broadleaved weeds up to 5 cm high use a minimum for 250 L spray solution/ha. Increase to 350 L/ha for weeds up to 10 cm high. Use a minimum spray volume of 400 L/ha for weeds >10 cm high and dense mature weeds. Refer to Paraquat label for rates and full directions.</p> <p>Note: Where broadleaved weeds are a serious problem, add 2,4-D sodium salt to the mixture.</p>
Summer Fallow	Potato Weed (<i>Hefiotropium europaoum</i>)	SA only	275 g	Only effective when in mixture with diquat/paraquat at label rates.

Crop	Weed	State	Rate/ha	Critical Comments	
Wheat, Barley, Triticale, Cereal Rye, Oats	Capeweed, Doublegee, Mustard, Wild Radish (suppression only), Water Weeds (Toad Rush, Crassula)	WA only	275 – 550 g *Barley to 390 g only	<p>Past planting application only for full cut sowing systems that leave a relatively smooth surface, e.g. standard combine or airseeder. Apply post plant pre-emergent to crop within 3 – 4 days of planting.</p> <p>Pre-plant application only for sowing systems (e.g. No Till or Zero Till) which leave open slots or furrows, or where seed is sown along the bottom of the furrow. Even the soil surface where harrowed after sowing. Apply within 7 – 10 days pre plant.</p> <p>Soil Types – use lower rates on sandy surfaced soils with a low organic carbon or clay content.</p> <p>Caution: DO NOT use on grey or white sands. Crop to be planted at least 35 mm deep. Crop tipping and yellowing may occur particularly when heavy rain falls after sowing. Shallow sown crops are more at risk.</p> <p>Caution: Severe crop damage will occur if herbicides containing Paraquat or Diquat contact an emerging cereal crop either as a salvage treatment or via spray drift unless rainfall has been exceptionally low.</p>	
	As above plus suppression of Annual Ryegrass, Barley Grass and Silver Grass		550 g plus 500 mL of a 720 g/L Metolachlor to improve suppression of Ryegrass		
Wheat, Barley, Triticale, Cereal Rye			275 – 550 g plus 830 mL/ha of trifluralin 480 g/L	As above. Must be incorporated within 4 hours of application.	
Wheat, Barley, Oats	Amsinkia (Yellow Burr), Capeweed, Charlock, Deadnettle, Iceplant, Melilotus, Mustards, Poppies, Saffron Thistle, Sheepweed, Spiny Emex, Three Corner Jack, Wild Radish, Wild Turnip	NSW, ACT, Vic, SA only	500 g	Apply when weeds are at the 2 – 4 leaf stage and soon after the crop is past the 2 – 5 leaf stage which is normally within 6 weeks of sowing. DO NOT spray later than early tillering stage.	
Wheat, Barley, Triticale, Oats	Capeweed, Douglegee , Erodium, London Rocket, Lupin, Mustard, Rapistrum, Wild Radish, Wild Turnip, Storksbill, Wild Mustard	WA only	200 g plus 400 mL MCPA 500	Apply when the crop has at least 3 to 5 leaves on the main stem (Zadoks 13-15).	Apply by boom spray or aircraft. Weeds must be in the 2 – 5 leaf stage. Crop and weeds should be dry at the time of spraying. DO NOT spray if rain imminent. Undersown sub-clovers may be slighted retarded. DO NOT apply to undersown medics. Apply in 40 – 70 L water/ha.
			280 g plus 200 mL 2,4-D Amine 625	Apply when the crop has at least 4 to 5 leaves on the main stem (Zadoks 14-15).	
Wheat and Barley	Soursob	SA only	710 g – 980 g	<p>Boom Spray: Sow the crop at least 5 cm deep. Apply when crop is in the 2 – 5 true leaf stage. Use the lower rate on lighter soils.</p>	
	Amsinkia (Yellow Burr), Capeweed, Deadnettle, Doublegee (Three Corner Jack), Iceplant, Mustards, Turnips, White Ironweed (Sheepweed), Wild Radish	NSW, ACT, Vic only SA only	280 g plus 500 mL MCPA 500 280 g plus 350 mL MCPA 500	<p>Apply by boom spray when the crop is at the 3 – 5 leaf stage (NSW, SA) or 5 leaf stage (Vic). Weeds must be at the 2 – 5 leaf stage.</p> <p>DO NOT spray if rain is imminent.</p> <p>DO NOT apply to undersown medics or lucerne.</p> <p>DO NOT use on Durali, Hybrid Titan, Kite, Kamilaroi or Shortim Wheat.</p>	

Crop	Weed	State	Rate/ha	Critical Comments
Irrigation channels and drainage ditches	Annual grass, broadleaf weeds and perennial grasses (except Bindweed, Nutgrass and Russian Knapweed)	Qld, Vic, Tas, SA, WA only	22 kg or 220 g per 100/m ²	High Volume or Power Spraying: Apply in 2000 L water. Apply during the non-crop season and when channel is not in use. Soil should be moist and preferably bare i.e. after regrading and cleaning channels. Apply prior to expected seasonal rainfall so as to 'fix' it into the soil. If 50 – 100 mm of rain has not fallen after application and it is necessary to use the irrigation channel, fill it with water and allow to stand for 72 hours, then drain off the water in the channel and run into wasteland.
		NSW only	40 kg maximum	
Bore Drains	Mimosa Bush, Prickly Acacia	Qld only	35.5 kg	Block off bore drain 24 hours prior to spraying and allow drain to empty. Spray 1 m wide strip onto mud. Wait 48 – 72 hours before opening drain again. Water MUST by-pass house tanks and desirable tree stands for 7 days after opening drain. DO NOT delve for 2 weeks.

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

WITHHOLDING PERIODS

DO NOT ALLOW ANIMALS TO DRINK WATER FROM TREATED BORE DRAINS FOR 3 DAYS BEFORE SLAUGHTER FOR HUMAN CONSUMPTION.

GRAZING/HARVEST:

NOT REQUIRED WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS

Before opening, carefully read Directions for Use, Precautionary Statements, Safety Directions and First Aid Instructions.

Application should be made to moist soil before weeds emerge unless otherwise recommended. Sufficient moisture in the form of rain or irrigation is necessary after application to move the Chemical into the weed root zone. Add non-ionic surfactant where recommended. When spraying emerged weeds best results are obtained when weeds are actively growing.

Thoroughly clean all traces of this product from application equipment immediately after use, otherwise injury to desirable vegetation may result when equipment is used again. Flush tank, pump, hose and boom with several changes of water after removing nozzle tip and screens (clean these parts separately). Keep from contact with fertilisers, insecticides, fungicides and seeds.

MIXING:

Part fill tank with CLEAN water (50%). Commence vigorous agitation. Add granules steadily. DO NOT dump. Ensure complete dispersion before filling to volume with water. Continue agitation during spraying. DO NOT leave spray solution in tank overnight.

Agitation: An efficient by-pass agitator or means of mechanical agitation should be employed when using this product.

COMPATIBILITY

This product is compatible with diquat, paraquat, amitrole, 2,4-D Amine and Ester, 2,4-DB, MCPA, chlorpyrifos, omethoate and chlorsulfuron. Add the required amount of product when the spray tank containing DIURON is nearly full and being continually agitated. This product is not compatible with methabenzthiazuron, dimethoate, flamprop-m-methyl, Diclofop-Methyl 375 and triadimefon.

As formulations of other manufacturers' products are beyond the control of Quantum Agrosiences Holdings Pty Ltd, all mixtures should be tested prior to mixing in commercial quantities.

SELECTIVE USE IN CROPS

For selective use in crops, it is important to apply recommended rates correctly. QA Diuron 900 WG

Herbicide is most effective when applied to soil which has been well tilled (clod free) and is free of weeds and trash. Where not recommended for overall application, care should be taken to avoid spray drift onto fruit or foliage. Wetting agents should only be used where specified.

REPLANTING RESTRICTIONS

Crop Rotations – DO NOT replant treated areas to any crop within two years after last spray unless otherwise stated.

Cotton – DO NOT replant treated areas to any crop within 1 year after last spray. Except cotton, corn or grain sorghum which may be planted in the spring of the following year.

Sugar Cane – Treated areas can be replanted to pineapple or sugar cane 1 year after last spray.

CROP SAFETY

Heavy rains after application of this product may cause severe crop damage, risk must be assumed by user. DO NOT use on sandy or gravelly soils or soils low in organic matter. Avoid contact of sprays with crop foliage or fruit.

RESISTANT WEEDS WARNING

GROUP 5 HERBICIDE

QA Diuron 900 WG Herbicide is a Group 5 Herbicide member of the Urea group of herbicides. QA Diuron 900 WG Herbicide has the inhibitor of photosynthesis at photosystem II mode of action. For weed resistance management QA Diuron 900 WG Herbicide is a Group 5 herbicide.

Some naturally occurring weed biotypes resistant to QA Diuron 900 WG Herbicide and other Group 5 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 Diuron 900 WG Herbicide or other Group C herbicides.

However, resistance should not be assumed without first viewing the method of application, the coverage and the timing of the application. Resistance to QA Diuron 900 WG Herbicide cannot be predicted and may occur at any time. It is not due to a fault in the product and Quantum Agrosiences Holdings Pty Ltd accepts no liability for any losses that may result from the failure of QA Diuron 900 WG Herbicide to control resistant weeds.

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 onto nearby susceptible plants/crops, cropping lands or pastures.

PROTECTION OF LIVESTOCK

Low hazard to bees. May be applied at any time as recommended in the Directions for Use.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT:

Dangerous to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN. Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight.

Shake and empty contents into spray tank/water/dip/drench, etc. Do not dispose of undiluted chemicals on site. 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.

SAFETY DIRECTIONS

Avoid contact with eyes and skin. DO NOT inhale dust or spray mist. If product on skin immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face

thoroughly with soap and water.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131 126.

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