

Product Name: GHARDA DIURON 900 WG HERBICIDE  
APVMA Approval No: 90850/130208



Label Name:	GHARDA DIURON 900 WG HERBICIDE
Signal Headings:	READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Constituent Statements:	900 g/kg DIURON
Mode of Action:	GROUP 5 HERBICIDE
Statement of Claims:	For selective weed control in the situations as per the directions for use table.
Net Contents:	250 g, 500 g, 1 kg, 5 kg, 10 kg, 15 kg, 20 kg, 25 kg, 500 kg (bulk)
Restrains:	<p>DO NOT replant treated areas within 2 years of application of GHARDA DIURON except when otherwise stated on label.</p> <p>DO NOT use on very light sandy or gravelly soils as crop damage may occur.</p> <p>DO NOT use in water-logged areas.</p> <p>DO NOT apply if greater than 50 mm rainfall is expected within 3 days of application.</p> <p>DO NOT irrigate within 3 days of application.</p> <p>DO NOT apply to fields where the slope exceeds 3%.</p> <p>DO NOT spot spray more than 5% of total farm areas.</p> <p>DO NOT apply more than once per calendar year.</p>
Directions for Use:	This section contains file attachment.
Other Limitations:	<p>Cotton</p> <p>DO NOT use in cotton UNLESS ALL irrigation tailwater and/or up to 25 mm rainfall can be captured and held on farm.</p> <p>Pulse crops</p>

	<p>DO NOT USE in pulse crops UNLESS application can be made using no-till farming practices.</p> <p>Lucerne</p> <p>DO NOT use in lucerne UNLESS ALL irrigation tailwater can be captured and held on farm.</p> <p>Irrigation channels and drains</p> <p>DO NOT use in irrigation channels or drains UNLESS ALL irrigation tailwater and rainfall can be captured and held on farm.</p> <p>Desert channels (bore drains)</p> <p>DO NOT apply between 1 December and 30 March.</p> <p>DO NOT open drains for 72 hours following treatment.</p>
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Withholding Periods:	<p>WITHHOLDING PERIOD: DO NOT ALLOW ANIMALS TO DRINK WATER FROM TREATED BORE DRAINS FOR 3 DAYS BEFORE SLAUGHTER FOR HUMAN CONSUMPTION.</p> <p>HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.</p> <p>GRAZING:</p> <p>PULSE CROPS: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 35 DAYS AFTER APPLICATION.</p> <p>ALL OTHER CROPS: NOT REQUIRED WHEN USED AS DIRECTED.</p>
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Trade Advice:	
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General Instructions:	This section contains file attachment.
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Resistance Warning:	<p>GHARDA DIURON is a member of the urea group of herbicides. GHARDA DIURON has the inhibitor of photosynthesis at photosystem II mode of action. For weed resistance management GHARDA DIURON is a Group 5 herbicide. Some naturally occurring weed biotypes resistant to GHARDA DIURON 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 GHARDA DIURON or other Group 5 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Gharda Australia accepts no liability for any losses that may result from the failure of GHARDA DIURON to control resistant weeds.</p>
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Precautions:	
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Protections:	<p>PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS</p> <p>DO NOT apply under weather conditions or from spraying equipment which may cause spray drift onto nearby susceptible plants/crops, cropping lands or pastures. DO NOT use for soil sterilisation near or under trees or shrubs.</p> <p>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT</p> <p>DO NOT contaminate streams, rivers or waterways with the chemical or used containers.</p>
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Storage and Disposal:	<p>Keep out of reach of children.</p> <p>Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.</p>
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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.  
The method of disposal of the container depends on the container type. Read the 'Storage and disposal' instructions on the label that is attached to the container.

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 Instructions:

First aid is not generally required. If in doubt, contact a Poisons Information Centre (phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

First Aid Warnings:

**General  
Instructions**

GHARDA DIURON is a powerful weedkiller which remains active in the soil for a long time. Use only at recommended rates and read label directions carefully before using. The effects of this product on weeds are slow to appear and will not become apparent until it is carried into the root zone of the weeds or weed seeds by moisture. Results vary with soil type - lower rates are effective on lighter soils and higher rates on heavier soils. This product is most effective and economical when applied to moist bare soil or soil carrying a small amount of vegetation. Application should be made shortly before the period of main weed growth and best results will be achieved if rainfall or irrigation occurs within 3 - 4 days of application. Where additional 'knockdown' is required, a non-ionic surfactant can be added to the spray mix. If existing herbage is excessive, it is advisable to mix Paraquat 250 with GHARDA DIURON. GHARDA DIURON is inactivated by absorption onto charcoal and other carboniferous materials.

**MIXING**

GHARDA DIURON mixes readily with water. Steadily add the required quantity to the spray vat which should be 50 – 75 % full. The agitation system should be running during addition of the product and during the spraying operation. If left to settle, stir/agitate thoroughly before spraying. Avoid drawing accumulated particles into outlet pipe. DO NOT pre-mix as a paste.

**Wetting Agent**

Add a non-ionic surfactant when applying to emerged weeds as a foliar spray. Refer to other product labels for rates and full directions.

**Selective use in crops**

For selective use in crops it is important to apply recommended rates correctly. GHARDA DIURON 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 and Lucerne: 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.

Sugarcane-treated areas can be replanted to pineapple or sugarcane 1 year after last spray.

**CROP SAFETY**

Heavy rains after application of this product may cause severe crop damage, risk must be assumed by the user.

**Crop Safety:**

DO NOT USE ON SANDY OR GRAVELLY SOILS OR SOILS LOW IN ORGANIC MATTER. AVOID CONTACT OF SPRAYS WITH CROP FOLIAGE OR FRUIT.

## DIRECTIONS FOR USE

Crop/Situation	Weeds Controlled	State	Rate	Critical Comments
Asparagus	Amaranthus, Barley grass, Barnyard grass (Water grass), Capeweed, Cobblers peg, Crowsfoot grass, Fat hen (White goosefoot), Guinea grass, Milk thistle (Sowthistle), Mustards, Pigweed, Summer grass, Wild oats, Wild radish, Wild turnip, Wimmera ryegrass (Annual ryegrass)	Vic only	1.5 - 1.9 kg/sprayed ha	Apply in established beds after they have been "hilled up" and before emergence of spikes. This will give 10 - 14 weeks freedom from weeds. Post-emergence applications may be made, but the spray should be directed so as to contact only the base of the stems. DO NOT use on seedling asparagus. Use the higher rates on heavier soils.
Bananas	Billygoat weed (Bluetop)	Qld only	275 - 500 g/ha plus 1.2 or	Add to Paraquat 250 to enhance weed control under favourable growing conditions and in open sunny conditions. GHARDA DIURON at rates up to 500 g/ha can be blanket sprayed. Use a directed spray for higher rates of GHARDA DIURON. 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 rate is less than the ratio 500 mL/100 L add a non-ionic surfactant to the spray mix.
	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, WA only	1.6 L/ha Paraquat 250	

Cotton	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	Old, NSW only	1 - 2 kg/ha	<p><b>Pre-emergence:</b> Apply at planting or within 7 days of planting and prior to cotton emergence. Seed should be planted at least 4 – 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. 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 – 450 L water/ha.</p>
				<p><b>Post emergence (lay-by):</b> Use the higher rates 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 the last cultivation. If emerged annual weeds (15 cm or less in height) are present add a non-ionic surfactant to the spray solution. Apply GHARDA DIURON as a directed spray to cover the area beneath cotton plants and between rows. Avoid spray contact or drift onto 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 in 300 – 500 L water/ha.</p>
Lucerne (established for 1 year or more)	Amsinckia (Yellow burr), Charlock, Dead nettle, Poppies, Sheepweed (White ironweed), Three cornered Jack (Double gee) Seedlings of Capeweed, Spiny emex Suppression of Wild radish, Wild turnip	All states	830 g/ha	Apply when lucerne has been grazed. Weeds should be very small (emerging to 4 leaf when treated). Use only in areas where lucerne becomes winter dormant. A wider spectrum of weeds will be controlled when tank mixed with Paraquat 250 or Paraquat-diquat 250 (Refer to Paraquat 250 or Paraquat-diquat 250 label for rates and full directions).
Lupins (on light soils only)	Annual ryegrass, Capeweed, Clovers, Double gee, Medics, Wild radish, Wild turnip and suppression only of Dock, Sorrel, Wireweed, Wild oats and Brome grass	WA only	1.1 kg/ha	Use through boom spray equipment only. Apply in a minimum of 50 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.
			1.1 kg/ha plus 1.25 L/ha Trifluralin 480	Use a tank mix of GHARDA DIURON plus Trifluralin 480 where Annual ryegrass is present. Apply at pre-sowing stage.

Pulses (Including Chickpeas, Faba beans, Lentils, Narbon beans, Field peas and Vetch)	Capeweed, Double gee, Wild radish, Wild turnip, Toad rush, Crassula, , and Erodium	All States	<p>IBS 830 g - 1.1 kg/ha</p> <p>PSPE 550 - 830 g/ha</p>	<p><b>Incorporated by sowing (IBS)</b> Apply to bare moist soil prior to sowing or at sowing and incorporate by the sowing operation. Use the lower rate on light sandy soils.</p> <p><b>Post Sowing Pre-Emergent Application (PSPE)</b> Apply as a post sowing pre-emergent application to moist soil before weed or crop emergence. Use the lower rate on light sandy soils. Application should not be made to excessively ridged or waterlogged soils. Sow the crop at least 5 cm deep. Trifluralin or Spinnaker may be tank mixed at the recommended rates.</p>
Sugar cane (Plant and ratoon crops)	Barnyard grass, Crowsfoot grass, Guinea grass, Summer grass, Barley grass, Ryegrass, Wild oats, Cobbler's pegs, Pigweed, Prince of Wales feather, Amaranthus, Fat hen, Mustard, Sowthistle, Capeweed, Wild radish, Wild turnip	Qld, NSW only	1.9 kg/ha	<p><b>Post-emergence of cane</b> <b>APPLY ONLY as a directed band spray over a maximum of 60% of the crop area</b> <b>DO NOT apply in the Wet Tropics</b> <b>DO NOT apply in the Burdekin between 1 January and 29 February.</b> <b>DO NOT apply in Mackay/Whitsunday between 1 December and 30 April</b> <b>DO NOT apply in Mary-Burnett between 1 November and 29 February</b> <b>DO NOT apply in NSW between 1 November and 30 April.</b> Soil surface must be moist at time of application. Rain or irrigation is required within 10 days of application if weeds at early post-emergence stage addition of a non-ionic surfactant will enhance activity, but direct spray to below cane leaves.</p>
			275 - 500 g/ha plus 1.2 - 1.6 L/ha Paraquat 250	<p>Add to Paraquat 250 to enhance weed control under favourable growing conditions and in open sunny conditions. GHARDA DIURON at rates up to 500 g/ha can be blanket sprayed. 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 &gt; 10 cm high and for dense mature weeds. Refer to Paraquat 250 label for rates and full directions. Note: Where broad-leaved weeds are a serious problem add 2,4-D 700 to the mixture.</p>



			500g - 1.9 kg/ha plus 1.2 - 1.6 L/ha Paraquat 250	<p><b>APPLY ONLY</b> as a directed band spray over a maximum of 60 % of the crop area.</p> <p><b>DO NOT</b> apply in the Wet Tropics</p> <p><b>DO NOT</b> apply in the Burdekin between 1 January and 29 February</p> <p><b>DO NOT</b> apply in Mackay/Whitsunday between 1 December and 30 April</p> <p><b>DO NOT</b> apply in Mary-Burnett between 1 November and 29 February</p> <p><b>DO NOT</b> apply in NSW between 1 November and 30 April.</p> <p>Add to Paraquat 250 to enhance weed control under favourable growing conditions and in open sunny conditions. Use only as a directed spray. 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 &gt; 10 cm high and for dense mature weeds. Refer to Paraquat 250 label for rates and full directions.</p> <p>Note: Where broad-leaved weeds are a serious problem add 2,4-D 700 to the mixture.</p>
Summer fallows	Potato weed ( <i>Heliotropium europaeum</i> )	SA only	275 g/ha	Only effective when in mixture with Paraquat-diquat 250 at 1.6 L/ha (See Paraquat-diquat 250 label).
Wheat, Barley, Oats	Amsinckia, Capeweed, Charlock, Corn gromwell (Ironweed), Dead nettle, Ice plant, Melilotus, Mustard, Rough poppy, Saffron thistle, Sheepweed, Three cornered jack (Double gee, Spiny emex), Wild radish, Wild turnip, Yellow burr weed	NSW, Vic, ACT & SA only	500 g/ha	<p>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.</p> <p><b>DO NOT SPRAY LATER THAN THE EARLY TILLERING STAGE.</b></p>

Wheat, Barley, Triticale, Cereal rye, Oats	Capeweed, Double gee, Mustard, Wild radish [suppression only], water weeds [Toad rush, Crassula]	WA only	275 - 550 g/ha *Barley to 390 g/ha only	<p><b>Post planting application</b> only for Full cut sowing systems that leave a relatively smooth surface, e.g. standard combine or airs seeder. Apply post plant pre-emergent to crop within 3 - 4 days of planting.</p> <p><b>Pre plant application</b> 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>	
	As above plus suppression of Annual ryegrass, Barley grass and Silver grass		550 g/ha plus 500 mL of a 720 g/L metolachlor to improve suppression of Ryegrass	<p><b>Soil Types</b> - use lower rates on sandy surfaced soils with a low organic carbon or clay content. <b>Caution:</b> 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><b>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.</b></p>	
Wheat, Barley, Triticale, Cereal rye			275 – 550 g plus 830 mL/ha of Trifluralin 480	As above. Must be incorporated within 4 hours of application.	
Wheat, Barley, Triticale, Oats	Capeweed, Double gee, Erodium, London rocket, Lupin, Mustard, Rapistrum, Storksbill, Wild mustard, Wild radish, Wild turnip	WA only	200 g/ha plus 270 mL/ha Thistle-killen 750	Apply when the crop has at least 3 - 5 leaves on the main stem. (Z13-15)	Apply by boom spray. 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 is imminent. DO NOT apply to undersown medics. Apply in 40 - 70 L water/ha.
			280 g/ha plus 200 mL/ha Amine 625	Apply when the crop has at least 4 - 5 leaves on the main stem. (Z14-15)	

Wheat, Barley, Triticale, Cereal rye	Amsinckia (Yellow burr), Capeweed, Charlock, Corn gromwell, Dead nettle, Double gee (Three cornered Jack), Erodium spp., Mustard, Spiny emex, Turnip weed, White ironweed, (Sheepweed), Wild radish, Wild turnip	NSW, Vic, ACT, SA only	280 g/ha plus 330 mL/ha (NSW, Vic only) 230 mL/ha (SA only) Thistle-killeem 750.	Apply by boom spray when the crop is at the 3 - 5 leaf stage (NSW, SA only) 5 leaf stage (Vic only). Weeds must be in the 2 - 5 leaf stage. DO NOT spray if rain is imminent. DO NOT apply to under sown medic or lucerne. In NSW DO NOT use on Durati, Hybrid Titan, Kite, Kamilaroi or Shortim wheat. Apply in 20 - 100 L/ha.
Wheat, Barley, Triticale	Soursob	SA only	710 - 980 g/ha	Boom spray: Sow crop at least 5 cm deep. Apply when crop is in the 2-5 true leaf stage. Use the lower rate on lighter soils. NSW: Some crop damage may occur at 1.1 kg/ha.
		NSW only	1.1 kg/ha	
Irrigation channels and Drainage ditches	Annual and perennial grasses and broadleaf weeds (Except Nutgrass, Bindweed and Russian knapweed)	SA, WA, Vic, Qld, Tas only	22 kg/ha OR 220 g/100m <sup>2</sup>	<b>High Volume or Power Spraying.</b> 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 to waste.
Bore drains	Prickly acacia, Mimosa bush	Qld only	35.5 kg/ha	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.**

## SPRAY DRIFT RESTRAINS

Specific definitions for terms used in this section of the label can be found at [www.apvma.gov.au/spraydrift](http://www.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 kilometers 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 aircraft

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

- Spray droplets not smaller than a Coarse 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/ha	Mandatory Downwind Buffer Zone (m)	
		Natural Aquatic Areas	Vegetation Areas
Wheat, barley, triticale, cereal rye, oats (WA only)	0.55 kg	30	60
Wheat, barley, triticale and oats (WA only)	0.27 kg	15	30
Wheat, barley, oats (NSW, Vic, ACT, SA only)	0.5 kg	25	50
Wheat and barley – SA only	0.98 kg	50	100
Wheat and barley – NSW, Vic, ACT, SA only	0.27 kg	15	30
Summer fallows – SA only	0.27 kg	15	30
Cotton	2 kg	100	200
Lupins-WA only	1.1 kg	30	80
Pulses – incorporated by sowing	1.1kg	30	80
Pulses – post-sowing pre-emergent	0.83 kg	50	100
Bananas	0.5 kg	25	50
Sugarcane	2 kg	100	200
Asparagus	2 kg	100	200