

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Apparent



Diuron 900 WG

HERBICIDE

ACTIVE CONSTITUENT: 900g/kg DIURON

GROUP 5 HERBICIDE

For selective weed control in the situations as specified in the directions for use table.

IMPORTANT: READ THIS LEAFLET BEFORE USE

APVMA Approval No: 65501/122977

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#### DIRECTIONS FOR USE:

##### RESTRAINTS

DO NOT use in water-logged areas.

DO NOT apply if greater than 50mm 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 greater than 5% of total farm area. DO NOT apply more than once per calendar year.

DO NOT replant treated areas within 2 years of an application of APPARENT Diuron 900 WG Herbicide except when otherwise stated on the label. DO NOT use on very light sandy soils as crop damage may occur.

##### Cotton:

DO NOT use in cotton UNLESS ALL irrigation tailwater and/or up to 25mm 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 each year. DO NOT open drains for 72 hours following treatment.

##### Pulse crops:

DO NOT use in pulse crops UNLESS application can be made using no-till farming practices.

##### Lucerne:

DO NOT use in Lucerne UNLESS ALL irrigation tailwater can be captured and held on farm.

##### SPRAY DRIFT RESTRAINTS:

Specific definitions for terms used in this section of the label can be found at [apvma.gov.au/spraydrift](http://apvma.gov.au/spraydrift). DO NOT apply by aircraft.

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 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.

##### GROUND APPLICATION

DO NOT apply with spray droplets smaller than a COARSE spray droplet size category.

##### MANDATORY NO-SPRAY ZONES

DO NOT apply when there is non-target vegetation downwind from the application area and within the mandatory no-spray zones shown in table below.

DO NOT apply when there are aquatic and wetland areas including aquacultural ponds, surface streams and rivers downwind from the application area and within the mandatory no-spray zones shown in table below.

Situation	Rate g/ha	Downwind buffer zone	
		Aquatic	Terrestrial
Wheat, barley, triticale, cereal rye, oats (WA only)	275-550	30	60
Wheat, barley, triticale and oats (WA only)	200-275	15	30
Wheat, barley, oats (NSW, ACT, VIC, SA only)	500	25	50
Wheat and barley (SA only)	710-980	50	100
Wheat and barley (NSW, ACT, VIC, SA only)	275	15	30
Summer fallows (SA only)	275	15	30
Cotton	1000-2000	100	200
Lupins (WA only)	1000	30	80
Lucerne	830	50	100
Pulses Incorporated by sowing	830-1100	30	80
Pulses post- sowing pre-emergent	550-830	50	100
Bananas	275-500	25	50
Sugarcane	2000	100	200
Asparagus	2000	100	200

**Sugarcane Post-emergent use (2.0 kg /ha max 60% band spray) APPLY ONLY as directed band spray** over a maximum of 60% of the crop area. DO NOT apply in the Wet Tropics.

DO NOT apply in the Burdekin between 1 January and 29 February.

DO NOT apply in Mackay/Whitsunday between 1 December and 30 April. DO NOT apply in Mary-Burnett between 1 November and 29 February. DO NOT apply in NSW between 1 November and 30 April.

SITUATION	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Cotton	Annual broadleaf weeds and some annual grasses	QLD, NSW only	1 to 2kg/ha	<b>Pre-emergence:</b> Apply at planting or within 7 days of planting and prior to cotton emergence. Seed should be planted at least 4-5cm 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 occur. DO NOT make a second pre-emergent application to the same field during the same crop year as injury to the crop may result. Apply in 300-450L water/ha. <b>Post-emergence (lay-by):</b> 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 30cm high, or immediately after the last cultivation. If emerged annual weeds (15cm or less in height) are present, add 170mL of a 600g/L non-ionic surfactant/100L water to the spray solution. Apply APPARENT 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 in 300-500L water/ha.
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	830g/ha	Apply when lucerne has been grazed. Weeds should be very small (emerging – 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 APPARENT Paraquat 250 Herbicide or APPARENT Weedy Seedy 250 Herbicide (refer to APPARENT Paraquat 250 Herbicide or APPARENT Weedy Seedy 250 Herbicide label for rates and full directions).
Lupins (on light soils only)	Annual Ryegrass, Capeweed, Clovers, Medics, Doublegee, Wild Radish, Wild Turnip Suppression of Brome Grass, Dock, Sorrel, Wild Oats, Wireweed	WA only	1.1kg/ha	Use through boomspray equipment only. Apply in a minimum of 50L 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.
Pulses (Including Chickpeas, Faba beans, Lentils, Narbon beans, Field peas and Vetch)	Cape Weed, Crassula, Double Gee, Erodium, Wild Radish, Wild Turnip, Toad Rush	ALL STATES	IBS 830g-1.1kg/ha PSPE 550-830g/ha	<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. <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 5cm deep. APPARENT Trifluralin 480 Herbicide or Spinnaker* may be tank mixed at the recommended rates.
Wheat, Barley, Triticale, Cereal Rye, Oats	Capeweed, Doublegee, Mustard, Wild Radish (suppression only), Water Weeds (Toads Rush, Crassula)	WA only	275-550g/ha *Barley to 390g/ha only	Post 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. 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. Soil Types – use lower rates on sandy surfaced soils with a low organic carbon or clay content. Caution: DO NOT use on grey or white sands. Crop to be planted at least 35mm deep. Crop tipping and yellowing may occur particularly when heavy rain falls after sowing. Shallow sown crops are more at risk.
	As above plus suppression of Annual Ryegrass, Barley Grass, Silver Grass		550g/ha plus 500mL of 720g/L metolachlor to improve suppression of Ryegrass	<b>Caution:</b> 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.
Wheat, Barley, Triticale, Cereal Rye			275-550g/ha plus 830mL/ha of APPARENT Trifluralin 480 Herbicide	As above. Must be incorporated within 4 hours of application.

SITUATION	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Wheat, Barley, Oats	Amsinkia (Yellow Burr), Capeweed, Charlock, Deadnettle, Iceptant, Melilotus, Mustards, Poppies, Saffron Thistle, Sheepweed, Spiny Emex, Three Corner Jack, Wild Radish, Wild Turnip	NSW, ACT, VIC, SA only	500g/ha	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 THE EARLY TILLERING STAGE.
Wheat, Barley, Triticale, Oats	Capeweed, Doublegee, Erodium, Mustard, Wild Radish, Wild Turnip, London Rocket, Lupin, Rapistrum, Storksbill, Wild Mustard	WA only	200g/ha plus 400mL/ha MCPA 500	Apply when the crop has at least 3-5 leaves on the main stem. (Zadoks 13-15)
			280g/ha plus 200mL/ha 2,4-D amine 625	Apply when the crop has at least 4-5 leaves on the main stem. (Zadoks 14-15)
Wheat, Barley	Soursob	SA only	710-980g/ha	<b>Boom Spray:</b> Sow crop at least 5cm deep. Apply when crop is in the 2-5 true leaf stage. Use the lower rate on lighter soils.
	Amsinckia (Yellow burr), Capeweed, Deadnettle, Doublegee (Three Cornered Jack), Mustard, White Ironweed (Sheep Weed), Wild Radish	NSW, ACT, VIC, SA only	280g/ha plus 500mL/ha (NSW, ACT, VIC only) 350mL/ha (SA only) MCPA 500	Apply by boomspray 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. DO NOT use on Durati, Hybrid Apparent, Kite, Kamilaroi, or Shortim Wheat.
Summer Fallows	Potato Weed ( <i>Heliotropium europaeum</i> )	SA only	275g/ha	Only effective when in mixture with APPARENT Weedy Seedy 250 Herbicide at 1.6L/ha (see APPARENT Weedy Seedy 250 Herbicide label).
Asparagus	Annual broadleaf weeds and some annual grasses	VIC only	1.5-2kg/ha	Apply in established beds after they have "filled up" and before emergence of spikes. This will give 10-14 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, WA only	275-500g/ha + 1.2 or 1.6L/ha APPARENT Paraquat 250 Herbicide	Add to APPARENT Paraquat 250 Herbicide to enhance weed control under favourable growing conditions and in open sunny conditions. APPARENT Diuron 900 WG Herbicide at rates up to 500g/ha can be blanket sprayed. Use a directed spray for higher rates of APPARENT Diuron 900 WG Herbicide. Complete spray coverage is essential. For grasses and broadleaved weeds up to 5cm high use a minimum of 250L spray solution/ha, increase to 350L/ha for weeds up to 10cm high. Use a minimum spray volume of 400L/ha for weeds >10cm high and for dense mature weeds. Refer to APPARENT Paraquat 250 Herbicide label for rates and full directions. If APPARENT Paraquat 250 Herbicide rate is less than the ratio 500mL/100L, add 100mL non-ionic surfactant or 60mL non-ionic surfactant 1000/100L spray mix.
Sugarcane	Amaranthus, Barley Grass, Barnyard Grass, Capeweed, Cobbler's Pegs, Crowsfoot Grass, Fat Hen, Guinea Grass, Mustard, Pigweed, Prince of Wales Feather, Ryegrass, Sow Thistle, Summer Grass, Wild Oats, Wild Radish, Wild Turnip	QLD, NSW only	1.9kg/ha Post-emergence of cane	APPLY ONLY as a directed band spray over a maximum of 60 % of the crop area. DO NOT apply in the Wet Tropics. DO NOT apply in the Burdekin between 1 January and 29 February. DO NOT apply in Mackay/Whitsunday between 1 December and 30 April. DO NOT apply in Mary-Burnett between 1 November and 29 February. DO NOT apply in NSW between 1 November and 30 April. Soil surface must be moist at time of application. Rain or irrigation is required within 10 days of application. Use lower rate if following an application at planting. If weeds at early post-emergence stage addition of non-ionic surfactant at 250mL/100L of water will enhance activity, but direct spray to below cane leaves.
	Amaranthus, Barley Grass, Barnyard Grass, Capeweed, Cobbler's Pegs, Crowsfoot Grass, Fat Hen, Guinea Grass, Mustard, Pigweed, Prince of Wales Feather, Ryegrass, Sow Thistle, Summer Grass, Wild Oats, Wild Radish, Wild Turnip		275-500g/ha + 1.2-1.6L APPARENT Paraquat 250 Herbicide	Add to APPARENT Paraquat 250 Herbicide to enhance weed control under favourable growing conditions and in open sunny conditions. APPARENT Diuron 900 WG Herbicide at rates up to 500g/ha can be blanket sprayed. Complete spray coverage is essential. For grasses and broadleaved weeds up to 5cm high use a minimum of 250L spray solution/ha, increase to 350L/ha for weeds up to 10cm high. Use a minimum spray volume of 400L/ha for weeds >10cm high and for dense mature weeds. Refer to APPARENT Paraquat 250 Herbicide label for rates and full directions. <b>Note:</b> Where broad leaved weeds are a serious problem add Tornado* DF to the mixture.
			275g-1.9kg/ha + 1.2-1.6L APPARENT Paraquat 250 Herbicide	APPLY ONLY as a directed band spray over a maximum of 60% of the crop area. DO NOT apply in the Wet Tropics. DO NOT apply in the Burdekin between 1 January and 29 February. DO NOT apply in Mackay/Whitsunday between 1 December and 30 April. DO NOT apply in Mary-Burnett between 1 November and 29 February. DO NOT apply in NSW between 1 November and 30 April. Add to APPARENT Paraquat 250 Herbicide to enhance weed control under favourable growing conditions and in open sunny conditions. APPARENT Diuron 900 WG Herbicide at rates up to 500g/ha can be blanket sprayed. Use a directed band spray for higher rates of APPARENT Diuron 900 WG Herbicide. Complete spray coverage is essential. For grasses and broadleaved weeds up to 5cm high, use a minimum of 250L spray solution/ha, increase to 350L/ha for weeds up to 10cm high. Use a minimum spray volume of 400L/ha for weeds >10cm high and for dense mature weeds. Refer to APPARENT Paraquat 250 Herbicide label for rates and full directions. <b>Note:</b> Where broad leaved weeds are a serious problem add APPARENT 2,4-D to the mixture.
Irrigation Channels and Drainage Ditches	Annual and perennial grasses and broadleaf weeds (except Nutgrass, Bindweed and Russian knapweed)	QLD, VIC, TAS, SA, WA only	22kg/ha or 220g/100m <sup>2</sup>	High volume or power spraying: Apply in 2000L water. Apply during the non- crop season and when channel is not in use. Soil should be moist and preferably bare, ie: after regrading and cleaning channels. Apply prior to expected seasonal rainfall so as to 'fix' it into soil. If 50-100mm 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.
		NSW only	40kg/ha maximum	
Bore drains	Prickly Acacia, Mimosa Bush	QLD only	35.5kg/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**  
**WITHHOLDING PERIOD:**  
**DO NOT ALLOW ANIMALS TO DRINK WATER FROM TREATED BORE DRAINS FOR 3 DAYS BEFORE SLAUGHTER FOR HUMAN CONSUMPTION**  
**GRAZING:**  
**PULSE CROPS: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 35 DAYS AFTER APPLICATION**  
**OTHER CROPS: NOT REQUIRED WHEN USED AS DIRECTED**  
**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 a 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

This product 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.

## COMPATIBILITY

This product is compatible with APPARENT Weedy Seedy 250 Herbicide and 2,4-D Amine, APPARENT Paraquat 250 Herbicide, MCPA 500. Add the required amount of product when the spray tank containing APPARENT Diuron 900 WG Herbicide is nearly full and being continually agitated.

This product is not compatible with Tribunil\*, Dimethoate 400, Flamprop-m-methyl, Diclofop-methyl 375 and APPARENT Triadimefon 500 WG Fungicide.

## WEED CONTROL ON NON-CROP LAND

APPARENT Diuron 900 WG Herbicide is an effective herbicide for the residual control of many annual and perennial grasses and broadleaf weeds on non-crop land such as irrigation and drainage ditches where bare ground is desired. Established perennials such as Bindweed, Johnson Grass, Nutgrass and Russian Knapweed are not satisfactorily controlled at rates recommended. Duration of control depends on the amount of chemical applied, soil type, rainfall and particular weed species.

## SELECTIVE USE IN CROPS

For selective use in crops it is important to apply recommended rates correctly. APPARENT 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 INSTRUCTIONS

### *Crop Rotations*

DO NOT replant treated areas to any crop within two (2) years after last spray unless otherwise stated.

**Cotton:** DO NOT replant treated areas to any crop within one (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 sugarcane one (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.

DO NOT use on light sands or gravelly soils or soils low in organic matter. AVOID CONTACT OF SPRAYS WITH FOLIAGE OR FRUIT.

## DRIFT WARNING

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.

## RESISTANT WEEDS WARNING

### GROUP 5 HERBICIDE

APPARENT Diuron 900 WG Herbicide is a member of the urea group of herbicides. APPARENT Diuron 900 WG Herbicide has the inhibitor of photosynthesis at photosystem II mode of action. For weed resistance management APPARENT Diuron 900 WG Herbicide is a Group 5 herbicide. Some naturally occurring weed biotypes resistant to APPARENT 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 APPARENT Diuron 900 WG Herbicide or other Group 5 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, AIRR APPARENT Pty Ltd accepts no liability for any losses that may result from the failure of APPARENT 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 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.

## PROTECTION OF LIVESTOCK

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

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND THE ENVIRONMENT

DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.

## STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN. Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight. Shake and empty contents into spray tank. 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 500mm 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

First aid is not generally required. If in doubt, contact a Poisons Information Centre (phone Australia 131126; New Zealand 0800 764 766; or a doctor).

## SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for APPARENT Diuron 900 WG Herbicide is available from AIRR APPARENT Pty Ltd on request.

**CONDITIONS OF SALE:** AIRR APPARENT 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 AIRR APPARENT's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of AIRR APPARENT Pty Ltd has any authority to add to or alter these conditions.

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