

PEEL
HERE

Smart Diuron 900 WG

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

HERBICIDE

ACTIVE CONSTITUENT: 900 g/kg DIURON

Group **C** Herbicide

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



IMPORTANT: READ THE ATTACHED LEAFLET
BEFORE USE

Crop Smart
better crop protection

09/18



CONTENTS: 5kg & 10kg

APVMA Approval No: 84857/111566

Distributed by
Crop Smart Pty Ltd
ABN 28 093 927 961
2409/4 Daydream Street, Warriewood NSW 2102
Tel: 1300 783 481 Fax: 1300 783 491

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.

Single rinse or shake remainder into spray tank.

DO NOT dispose of undiluted chemicals on site. 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 and 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 products.

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 131126.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet which can be obtained from the supplier.

CONDITIONS OF SALE:

Crop Smart Pty Ltd. accepts responsibility for the consistent quality of the product; however since the use and application of the product is beyond control, the company accepts no responsibility whatsoever for any loss, damage or other result following the use of the product whether used in accordance with directions or not; other than those mandatorily imposed by statutes, the liability is limited to the replacement of the goods and is conditional upon a claim made in writing and, where necessary, a sufficient part of the goods being returned for proper examination by the company within thirty days of sale.

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

DO NOT apply with spray droplets smaller than COARSE spray droplet size category according to nozzle manufacturer specifications that refer to the ASAE S572 Standard for the BCPC Guideline.

Users of the product MUST make an accurate written record of the details of each spray application within 24 hours following application and KEEP this record for a minimum of 2 years. The spray application details that must be recorded are: 1. Date with start and finish times of application; 2. Location address and paddock/s sprayed; 3. Full name of this product; 4. Amount of products used per hectare and number of hectares applied to; 5. Crop/situation and weed/pest; 6. Wind speed and direction during application; 7. Air temperature and relative humidity during application; 8. Nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application; 9. Name and address of person applying this product. (Additional record details may be required by the State or Territory where this product is used).

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 the 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 the table below.

Situation	Rate ac/ha	Downwind buffer zone (m)	
		Aquatic	Terrestrial
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	WEED	STATE	RATE/ha	CRITICAL COMMENTS
Asparagus	Annual broadleaf weeds and some annual grasses	Vic only	1.5-2 kg	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 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. Smart Diuron 900 WG at rates up to 500 g/ha can be blanket sprayed. Use a directed spray for higher rates of Smart Diuron 900 WG. 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/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 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 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 the last cultivation. If emerged annual weeds (15 cm or less in height) are present add 170 mL non-ionic
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				<p>surfactant 600 g/100 L water to the spray solution. Apply SMART DIURON 900 WG 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.</p> <p>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.</p>
Lupins (on light soils only)	Annual Ryegrass, Capeweed, Clovers, Doublegee, Medics, Wild Radish, Wild Turnip and suppression of Dock, Sorrel, Wireweed, Wild Oats and Brome Grass	WA only	1.1 kg	<p>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.</p> <p>DO NOT use on white or grey sands.</p>
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	<p>Post-emergence of cane,</p> <p>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</p> <p>Soil surface must be moist at all times of application. Rain or irrigation is required within 10 days of application. If weeds at early post-emergence stage addition of non-ionic surfactant 600 g/L at 250 mL/100L of water will enhance activity, but direct spray below cane leaves.</p>
			275 - 1.9 kg plus 1.2 - 1.6 Paraquat (250 g/L)	<p>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</p> <p>Add to Paraquat to enhance weed control under favourable growing conditions and in open sunny conditions. SMART DIURON 900 WG at rates up to 500 g/ha can be blanket sprayed. Use a directed spray for higher rates of SMART DIURON 900 WG. 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 10cm high. Use a minimum spray volume of 400 L/ha for weeds >10cm 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	(<i>Heliotropium europaeum</i>)	SA only	275 g	<p>Only effective when mixed with diquat/paraquat at label rates.</p>

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	Past planting application only for full cut sowing systems that leave a relatively smooth surface, eg. standard combine or airseeder. Apply post plant pre-emergent to crop within 3 - 4 days of planting. Pre plant application only for sowing systems (eg. 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 35 mm deep. Crop tipping and yellowing may occur particularly when heavy rain falls after sowing. Shallow sown crops are more at risk. 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.	
	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, Doublegee, 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 is
			280 g plus 200 mL 2,4-D Amine 625	Apply when the crop has at least 4 to 5 leaves on main stem (Zadoks 14-15).	imminent. Undersown sub-clovers may be slighted retarded. DO NOT apply to undersown medics. Apply in 40 - 70 L water/ha.

Wheat and Barley	Soursob	SA only	710 g - 980 g	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.	
	Amsinkia (Yellow Burr), Capeweed, Deadnettle, Mustards. Doublegee	NSW, ACT, Vic only	280 g plus 500 mL MCPA 500	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.	
	(Three Corner Jack), Iceplant, Mustards, Turnips, White Ironweed Sheepweed), Wild Radish	NSW, ACT, Vic only	280 g plus 350 mL MCPA 500	DO NOT spray if rain is imminent. DO NOT apply to undersown medics or lucerne. DO NOT use on Durati, Hybrid Titan, Kite, Kamilaroi or Shortim Wheat.	

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.
		NSW only	40 kg maximum	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.

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.
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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.

SELECTIVE USE IN CROPS

For selective use in crops it is important to apply recommended rates correctly. Smart Diuron 900 WG 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 C HERBICIDE

Smart Diuron 900WG Herbicide is a GROUP C HERBICIDE member of the Urea group of herbicides. Smart Diuron 900WG has the Inhibitor of photosynthesis at photosystem II mode of action. For weed resistance management Smart Diuron 900WG is a Group C herbicide.

Some naturally-occurring weed biotypes resistant to Smart Diuron 900WG and other Group C 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 Smart Diuron 900WG or other Group C herbicides.

However resistance should not be assumed without first viewing the method of application, the coverage and the timing of application. Resistance to Smart Diuron 900WG cannot be predicted and may occur at any time. It is not due to a fault in the product and CROP SMART PTY LTD. accepts no liability for any losses that may result from the failure of Smart Diuron 900WG 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 container.

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.

Single rinse or shake remainder into spray tank.

DO NOT dispose of undiluted chemicals on site. 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 and 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 products.

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 131126.

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Additional GHS Statements

Harmful if swallowed. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. Do not breathe dusts. Avoid release to the environment.