

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Adama
Diuron[®] 900 WDG
Herbicide



ADAMA
ESSENTIALS

ACTIVE CONSTITUENT: 900 g/kg DIURON

GROUP **C** HERBICIDE

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

adama.com

CONTENTS: 10 kg, 15 kg

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.

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 the 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 or the BCPC Guideline.
DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour as measured at the application site.

Users of this 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 applications that must be recorded are:

1. Data 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 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 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, ACT, Vic, SA only)	450	25	50
Wheat and barley (SA only)	640-880	50	100
Wheat and barley (NSW, ACT, Vic, SA only)	250	15	30
Summer fallows (SA only)	250	15	30
Cotton	900-1800	100	200
Lucerne	750	50	100
Lupins (WA only)	990	30	80
Pulses – incorporated by sowing	750-990	30	80
Pulses – post-sowing pre-emergent	495-750	50	100
Bananas	250-450	25	50
Sugarcane	1800	100	200
Asparagus	1800	100	200

CROP	WEEDS CONTROLLED	STATE	RATE/ha	CRITICAL COMMENTS
Cotton	Annual broadleaf weeds and some annual grasses	Qld, NSW only	1-2 kg	<p>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.</p> <p>DO NOT use on light sandy soils as injury to crop may occur.</p> <p>DO NOT make a second pre-emergent application to the same field during the same crop year as injury to the crop may result.</p> <p>Apply in 300-450 L water/ha.</p> <p>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.</p> <p>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 Wetspray 600/100 L water to the spray solution. Apply DIURON 900 WDG 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.</p> <p>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.</p> <p>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	<p>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.</p> <p>A wider spectrum of weeds will be controlled when tank mixed with Spraytop 250 SL or Spray & Sow (Refer to Spraytop 250 SL or Spray & Sow label for rates and full directions).</p>
Lupins (on light soils only)	Annual Ryegrass, Capeweed, Clovers, Medics, Doublegee, Wild Radish, Wild Turnip and suppression of Brome Grass, Dock, Sorrel, Wild Oats and Wireweed	WA only	1.1 kg	<p>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.</p> <p>DO NOT use on white or grey sands.</p>

CROP	WEEDS CONTROLLED	STATE	RATE/ha	CRITICAL COMMENTS	
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 830 g-1.1 kg PSPE 550-830 g	Incorporated by sowing (IBS): 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. Post Sowing Pre-Emergent Application (PSPE): 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. Trilogy® or Spinnaker* may be tank mixed at the recommended rates.	
Wheat, Barley, Triticale, Cereal Rye, Oats	Capeweed, Doublegee, Mustard, Water Weeds (Toads Rush, Crassula), Wild Radish (suppression only)	WA only	275-550 g * Barley to 390 g 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.	
	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	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. 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.	
Wheat, Barley, Triticale, Cereal Rye			275-550 g plus 830 mL/ha of Trilogy®	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 (Zadocks 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. DO NOT apply to undersown medic or undersown sub-clover. Apply in 40-70 L water/ha.
			280 g plus 200 mL 2,4-D Amine 625	Apply when crop has at least 4 to 5 leaves on main stem (Zadocks 14-15)	
Wheat, Barley	Soursob	SA only	710-980 g	Boom Spray: Sow crop at least 5cm deep. Apply when crop is in the 2-5 true leaf stage. Use the lower rate on lighter soils.	
	Amsinkia (Yellow Burr), Capeweed, Deadnettle, Doublegee (Three Corner Jack), Mustard, White Ironweed (Sheep Weed), Wild Radish	NSW, ACT, Vic, SA only	280 g plus 500 mL (NSW, ACT, Vic only) 350mL (SA only) MCPA 500	Apply by boomspray or aircraft 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 Titan, Kite, Kamilaroi, or Shortim Wheat.	
Summer Fallow	Potato Weed (<i>Heliotropium europaeum</i>)	SA only	275 g	Only effective when in mixture with Spray & Sow® at 1.6 L/ha (See Spray & Sow label).	
Asparagus	Annual broadleaf weeds and some annual grasses	Vic only	1.5-2 kg	Apply in established beds after they have "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.	

CROP	WEEDS CONTROLLED	STATE	RATE/ha	CRITICAL COMMENTS
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	275-500 g/ha plus 1.2 or 1.6 L/ha Spraytop® 250 SL	Add to Spraytop® 250 SL to enhance weed control under favourable growing conditions and in open sunny conditions. DIURON 900 WDG at rates up to 500 g/ha can be blanket sprayed. Use a directed spray for higher rates of DIURON 900 WDG. 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 >10cm high and for dense mature weeds. Refer to Spraytop® 250 SL label for rates and full directions. If Spraytop® 250 SL rate is less than the ratio 500 mL/100 L, add 100 mL Wetspray® 600 or 60 mL Wetspray® 1000/100 L 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	1.9 kg	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 Wetspray® 600 at 250 mL/100L of water will enhance activity, but direct spray to below cane leaves.
			275 - 500g/ha plus 1.2-1.6L Spraytop 250 SL	Add to Spraytop 250 SL to enhance weed control under favourable growing conditions and in open sunny conditions. Diuron 900 WDG 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 Spraytop 250 SL label for rates and full directions. Note: Where broad leaved weeds are a serious problem add Tornado* DF to the mixture.
			275 g-1.9 kg/ha plus 1.2-1.6 L Spraytop® 250 SL	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 Spraytop® 250 SL to enhance weed control under favourable growing conditions and in open sunny conditions. DIURON 900 WDG at rates up to 500 g/ha can be blanket sprayed. Use a directed band spray for higher rates of DIURON 900 WDG. 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 Spraytop® 250 SL label for rates and full directions. Note: Where broad leaved weeds are a serious problem add Tornado* DF to the mixture.
Irrigation Channels & Drainage Ditches	Annual and perennial grasses and broadleaf weeds (Except Nutgrass, Bindweed and Russian Knapweed)	Qld, Vic, Tas, SA, WA only	22 kg/ha OR 220 g/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 to waste.
		NSW only	40 kg/ha maximum	
Bore Drains	Prickly Acacia, MimosaBush	Qld only	35.5 kg/ha	Block off bore drain 24 hours prior to spraying and allow drain to empty. Spray 1m 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

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 Wetspray® where recommended.

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.

RESISTANT WEED WARNING

Adama DIURON® 900 WDG Herbicide is a member of the Urea group of herbicides. DIURON 900 WDG has the Inhibitor of

GROUP **C** HERBICIDE

photosynthesis at photosystem II mode of action. For weed resistance management DIURON 900 WDG is a Group C herbicide. Some naturally-occurring weed biotypes resistant to DIURON 900 WDG 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 DIURON 900 WDG 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 DIURON 900 WDG cannot be predicted and may occur at any time. It is not due to a fault in the product and Adama Australia Pty. Ltd. accepts no liability for any losses that may result from the failure of DIURON 900 WDG to control resistant weeds.

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, Spraytop® 250 SL, amitrole, 2,4-D Amine and Ester, 2,4-DB, MCPA, Strike-Out® 500 EC, Le-Mat* and Tackle® 750 WP. 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 Tribunil*, Rogor*, Matavan*, Hoegrass* and Bayleton*.

As formulations of other manufacturers' products are beyond the control of Adama, all mixtures should be tested prior to mixing commercial quantities.

SELECTIVE USE IN CROPS

For selective use in crops it is important to apply recommended rates correctly. DIURON 900 WDG 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.

Sugarcane – 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.

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. Shake empty bag into spray tank. DO NOT dispose of undiluted chemicals on-site. Puncture or shred and bury empty containers at a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

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.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for DIURON 900 WDG is available from Adama on request. Call Customer Service on (02) 9431 7800.

CONDITIONS OF SALE: The use of Adama DIURON® 900 WDG Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia Pty. Ltd. regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Adama Australia Pty. Ltd. accepts no responsibility for any consequence whatsoever from the use of this product.

® Registered trademark of an ADAMA Agricultural Solutions Ltd Company

* Other registered trademarks

NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE.

Adama Australia Pty. Ltd. ABN 55 050 328 973

Suite 1, Level 4, Building B,
207 Pacific Highway
St Leonards NSW 2065 Australia
Tel: (02) 9431 7800 Fax: (02) 9431 7700

APVMA Approval No.: 46812/63192

Batch No.

Date of Manufacture