

# CAUTION

KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

eChem

# DIURON 500 SC HERBICIDE



ACTIVE CONSTITUENT: 500 g/L DIURON  
SOLVENT: 50 g/L ETHYLENE GLYCOL

GROUP	<b>C</b>	HERBICIDE
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For the control of a wide variety of weeds in cotton, wheat and barley, sugar cane, irrigation channels and drainage ditches as per the directions for use table.

IMPORTANT: READ THE ATTACHED LEAFLET  
BEFORE OPENING OR USING THIS PRODUCT

20, 200 & 1000 Litres

*[Insert drum muster logo where relevant]*

## eChem (Australia) Pty. Limited

ABN 23 089 133 095

67 Boundary St, MOREE, NSW 2400

Tel: 02 6752 7427

Fax: 02 6752 7387

## **STORAGE AND DISPOSAL**

Store in the closed, original container in a dry, cool, well ventilated locked room or place away from children, animals, food, feedstuffs, seed and fertilizers. Do not store for prolonged periods in direct sunlight.

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available bury the containers below 500 mm in a disposal pit specifically set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

## **SAFETY DIRECTIONS**

Will irritate the eyes. Avoid contact with eyes and skin. When opening the container, preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves. Wash hands after use. After each days use, wash gloves and contaminated clothing.

## **FIRST AID**

If poisoning occurs contact a doctor or Poisons Information Centre (Phone Australia 13 11 26).

Material Safety Data Sheet

Additional Information is listed in the Material Safety Data Sheet.

## **Conditions of sale**

eChem (Australia) 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.

APVMA Approval No. 57823/1112

**BN**

**DOM**

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## **DIRECTIONS FOR USE**

### **RESTRAINTS:**

DO NOT re-plant treated areas within two years of an application of eChem Diuron 500 SC Herbicide except when otherwise stated on label.

DO NOT use on very light sandy or gravelly soils as crop damage may occur.

DO NOT apply to plants under stress.

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

## **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.

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 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 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, 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
Cotton	900 – 1800	100	200
Lupins – WA only	990	30	80
Sugarcane	1800	100	200

CROP	WEEDS	STATE	RATE/HA	CRITICAL COMMENTS
Cotton	Amaranthus, Barley grass, Barnyard grass, Capeweed, Cobbler's pegs, Crowsfoot grass, Fat hen, Guinea grass, Mustards, Pigweed, Prince of Wales Feather, Ryegrass, Sowthistle, Summer grass, Wild oats, Wild radish, Wild turnip	NSW, Qld, WA only	1.8-3.5 L	<p><b>Pre-emergence:</b> Spray bare, moist soil immediately after planting. Seed should be planted at least 4-5 cm deep and soil compacted over seeds by a normal planter press wheel. DO NOT make a second pre-emergence application to the same field during the same crop year as injury to the crop may result.</p> <p><b>Post-emergence:</b> Apply when cotton is at least 30 cm high or immediately after last cultivation. Use 300-500 L water per hectare as a directed spray to cover area beneath cotton plants and between rows. If annual weeds are present add 200 mL of a 100% surfactant per 100 L spray mixture. Use higher rates on soils high in organic matter or clay. Avoid spray drift on to cotton plants as injury may result. DO NOT apply more than once per season. DO NOT plant other crops within one year of application, except for cotton,</p>

eChemDiuron 500 SC Herbicide

20 Litre Label  
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				corn or grain, sorghum, which may be planted in the spring following treatment.
Lupins	Capeweed, Doublegee, Wild radish, Wild turnip	WA only	2 L	DO NOT use on white or grey sand as severe crop damage may result Use at this rate where no grass weeds are present. Apply at pre-sowing - pre-emergent stage.
			2 L plus 1.5 L Trifluralin	Use tank mix of DIURON plus Trifluralin where Annual Ryegrass is present. Apply at pre-sowing stage. Refer to Trifluralin label for application and incorporation details.
Sugarcane	Amaranthus, Barley grass, Barnyard grass (water grass), Capeweed, Milk Thistle (sowthistle), Crowsfoot grass, Fat hen (white goosefoot), Guinea grass, Mustards, summer grass, Wild radish, Wild turnip, Wimmera Ryegrass (annual ryegrass)	NSW, Qld only	3.5 L	<p>Directed Spray:  <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></p> <p>Apply after cultivation to emerged cane. Add 185 mL Wetting Agent (1000 g/L) per 100 L spray mixture and apply as a directed spray where emerged annual weeds or grasses (15 cm or less in height) are present. Avoid contact with the cane spindle. Apply at this rate after crop emergence if an application was made at planting or after harvesting.</p>
Wheat and Barley	Charlock, Capeweed, Deadnettle, Iceplant, Melilotus, Mustards, Rough poppy, Saffron thistle, Sheepweed, Three cornered jack, Wild turnip, Yellow burrweed	SA only	850 mL	Boom Spray: Post-emergence. Apply when the crop has reached the 2-4 leaf stage (Z1 2-14). Sow the crop at least 5 cm deep. Spray when weeds have germinated and are in the 2-4 leaf stage, are actively growing and less than 6 weeks old.
	Sourso		1.3 - 1.7 L	Boom Spray: Sow the crop at least 5 em deep. Apply when crop is in the 2-5 true leaf stage (Z12-15). Use lower rate on lighter soils,
Wheat, Barley and Oats	Capeweed, Doublegee, Erodium, London Rocket, Lupin, Mustards, Rapistrum, Wild radish, Wild turnip	WA only	350 mL plus 400 mL MCPA 500	Apply according to crop stage using boom spray or aircraft with 20-100 L waterlha. 3-4 leaf stage (Zadocks 13-14).
			400 mL plus 500 mL MCPA 500	4-5 leaf stage (Zadocks 14-15).
			500 mL plus 250 mL 2,4 D Amine 500	4-6 leaf stage (Zadocks 14-16)
				Apply when most weeds have germinated and are in 2-5 leaf stage. Crops and weeds should be dry at time of application and rain should not be imminent. Some temporary yellowing of crop may occur and undersown sub-clovers may be slightly retarded. DO NOT apply to undersown medics. DO NOT use above treatments on crops grown on very light sandy soils, low in organic matter and liable to drift. DO NOT apply above treatment later than 6 weeks after planting.
Wheat, Barley, Triticale, Cereal & Rye	Capeweed, Mustards, Three comemed jack, Turnip weed, Wild radish, Wild turnip,	SA only	500mL plus 350 mL MCPA 500	Apply in boom spray or aircraft when crop is at the 3-5 leaf stage (NSW only) and 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 undersown medic or lucerne. DO NOT use on Kamolaroi, Olympic or Shortim Wheat.
	Amsinckia (Yellow Burr), Capeweed,	NSW, Vic	500 mL plus	

	Charlock, Deadnettle, Doublegee (Spiny emex), Erodium sp., Mustards, Turnip weed, White Ironweed, (Corn Gromwell, Sheelpweed), Wild radish, Wild turnip	only	500 mL MCPA 500	
Irrigation channels and drainage ditches	Annual grasses, broadleaf weeds and perennial grasses	Qld, Vic, SA, WA only	70-150 L or 700 mL -1.5 L per 100 square metres	High Volume or Power Spraying: Apply in 2000 litres of 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 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. Use lower rate on lighter soils. DO NOT use channels or ditches for horticultural irrigation for 8 weeks after treatment.
		NSW only	20-40 L or 200 - 400 mL per 100 square metres	

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

**WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED.**

### WEEDS TABLE

**Weeds controlled:** Annual grasses, perennial grasses and broadleaf weeds including:

Common name	Scientific name
Amaranthus, Prince of Wales Feather,	<i>Amaranthus spp</i>
Barley grass,	<i>Hordeum Leporinum</i>
Barnyard grass,	<i>Echinochloa crus-galli</i>
Capeweed,	<i>Arctotheca calendula</i>
Charlock	<i>Sinapis arvensis</i>
Cobbler's pegs,	<i>Bidens pilosa</i>
Corn gromwell (sheepweed, Ironweed)	<i>Buglossoides arvensis</i>
Crowsfoot grass,	<i>Eleusine indica</i>
Deadnettle	<i>Lamium amplexicaule</i>
Fat hen,	<i>Chenopodium album</i>
Guinea grass,	<i>Panicum maximum</i>
Iceplant	<i>Mesembryanthemum crystallinum</i>
Mustards,	- various
Pigweed,	<i>Portulaca oleracea</i>
Rough poppy	<i>Papaver hybridum</i>
Ryegrass,	<i>Lolium rigidum</i>
Sathron Thistle	<i>Carthamus lanatus</i>

Soursob  
Sowthistle,  
Summer grass,  
Three cornered jack  
Wild oats,  
Wild radish,  
Wild turnip  
Yellow burr weed

Oxalis spp  
*Sonchus oleraceus*  
*Digitaria spp*  
*Emex australis*  
*Avena spp*  
*Raphanus raphanistrum*  
*Brassica tournifortii*  
*Amsinckia spp*

### GENERAL INSTRUCTIONS

For early post-emergent control of annual grasses and certain broadleaf weeds in cereals. Prior to sowing Lupins for grass and broadleaf control in WA only.. Controls annual grass and broadleaf weeds in cotton, sugar cane, irrigation channels and drainage ditches

Read label carefully prior to opening.

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).

## **RESISTANCE WEEDS WARNING**

eChem Diuron 500 SC Herbicide is a member of the Urea group of herbicides. The product has the Inhibitors of photosynthesis at photosystem II mode of action. For weed resistance management eChem Diuron 500 SC is a Group C Herbicide. Some naturally occurring weed biotypes resistant to eChem Diuron 500 SC and other Inhibitors of photo-synthesis at photosystem II 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 eChem DIURON 500 SC or other Inhibitors of photo-synthesis at photosystem II herbicides,

Since the occurrence of resistant weeds is difficult to detect prior to use, eChem Pty. Ltd. accepts no liability for any losses that may result from the failure of eChem Diuron 500 SC to control resistant weeds. However resistance should not be assumed without viewing the method of application, the coverage and the timing of application. Consult your local eChem (Australia) Pty Ltd representative or Agronomist for further information.

## **MIXING**

Stir product or invert container several times before using as settling may occur after storage for some weeks. To ensure even mixing, half fill the spray tank with clean water and add the required amount of product. Agitate thoroughly and continue agitating while filling the tank. Agitate continuously while carrying out spray operations. Reseal part used container immediately after use.

## **COMPATIBILITY**

This product may be mixed in the spray tank with the following active ingredients:

Herbicides:- 2,4-D entire, 2,4-D ester, 2,4-D sodium salt, 2,4-DB, 2,2-DPA, Amitrole, Chlorsulfuron, Clopyralid, Dicamba, MCPA amine MCPA ester, Paraquat Paraquat/Diquat, Simazine.

Insecticides:- Chlorpyrifos, Omethoate.

## **NOTE:**

1. Add the required amount of product when the spray tank containing eChem Diuron 500 SC is nearly full and being continuously agitated.
2. Information on compatibility is understood to be correct at time of publication, however products may vary from time to time, therefore a small scale compatibility test should be carried out before mixing in the spray tank.
3. Observe any mixing sequence instructions for tank mix products.

## **APPLICATION**

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. When spraying emerged weeds, add a 100% non-ionic surfactant at 200 mL per 100 L of spray mixture. When spraying emerged weeds, best results are obtained when weeds are actively growing.

## **CROP DAMAGE**

If heavy rains occur following application, severe crop damage may result. Risk must be assumed by user.

## **PROTECTION OF WILDLIFE, FISH, CRUSTACEA AND ENVIRONMENT**

Dangerous to fish. DO NOT contaminate dams, rivers or streams with chemical or used containers. DO NOT use container for any other purpose.



## **PROTECTION OF CROP, NATIVE AND NOT-TARGET PLANTS**

DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures. DO NOT drain or flush equipment or spray near desirable trees or other plants, or on areas where their roots may extend, or in situations, particularly sloping areas, where by movement of treated soil or by seepage, the herbicide may be absorbed by plant roots. DO NOT use on sandy, loamy or gravelly soils, unless otherwise stated, as crop damage may result. DO NOT replant treated areas within 2 years of application unless otherwise stated. DO NOT plant other crops within one year of application to cotton.

## **STORAGE AND DISPOSAL AND PROTECTION OF OTHERS**

Store in the closed original container in a dry, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break crush, or puncture and bury empty containers in 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**

Will irritate the eyes. Avoid contact with eyes and skin. When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

## **FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26.

## **MATERIAL SAFETY DATA SHEET (MSDS):**

Additional information is listed in the Material Safety Data Sheet (MSDS).

## **CONDITIONS OF SALE:**

eChem (Australia) 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.

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Batch No.

Date of Manufacture: