



READ SAFETY DIRECTIONS BEFORE OPENING OR USING

# Bayer Diuron 500 SC

LIQUID HERBICIDE

Active Constituent: 500 g/L DIURON

GROUP C HERBICIDE

For the control of weeds in cereals, cotton, sugar cane,

## GENERAL INSTRUCTIONS

### Resistant Weeds Warning

Bayer Diuron 500 SC is a member of the urea group of herbicides and has the inhibitors of photosynthesis at photosystem II mode of action. For weed resistance management Bayer Diuron 500 SC is a group C herbicide. Some naturally-occurring weed biotypes resistant to Bayer Diuron 500 SC 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 Bayer Diuron 500 SC or other Group C herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Bayer CropScience Pty Ltd accepts no liability for any losses that may result from the failure of Bayer Diuron 500 SC to control resistant weeds.

### Export of Treated Produce

Growers should note that MRLs or import tolerances do not exist in all markets for edible produce treated with Bayer Diuron 500 SC Liquid Herbicide. If you are growing edible produce for export, please check with Bayer CropScience Pty Ltd for the latest information on MRLs and import tolerances before using Bayer Diuron 500 SC Liquid Herbicide.

### Mixing

Prior to pouring, shake container vigorously, then add the required amount of product to the partly filled tank while agitating. Continue agitating while filling the tank. Agitate continuously while carrying out spraying operations. Reseal part used container immediately after use.

### Compatibility

This product is compatible with 2,4-D amine, amitrole and MCPA. Add the required amount of product when the spray tank containing Bayer Diuron 500 SC is nearly full and being continually agitated. Do not mix concentrates together but add each to the spray tank separately.

**Important: always mix Bayer Diuron 500 SC with the water in the spray vat first then add the other herbicide. Keep agitation going during mixing.**

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

### 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. Add 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).

### Crop Damage

Heavy rains after application may cause severe crop damage. Risk must be assumed by user.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Dangerous to fish and other aquatic organisms. DO NOT contaminate streams, rivers or waterways with the chemical or used container. DO NOT use the container for any other purpose.

**PROTECTION OF CROPS, NATIVE AND NON-TARGET PLANTS**

Do NOT apply under weather conditions or from spraying equipment which could be expected to cause spray to drift onto nearby susceptible plants, adjacent crops, crop 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**

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. Store apart from fertilisers, insecticides and fungicides. Triple or preferably pressure rinse container 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 the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, 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 (telephone 13 11 26).

**MATERIAL SAFETY DATA SHEET**

Additional information is listed in the Material Safety Data Sheet, which can be obtained from [www.bayercropscience.com.au](http://www.bayercropscience.com.au).

**EXCLUSION OF LIABILITY**

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.

APVMA Approval No.: 31685/ **1112**

FOR 24 HOUR SPECIALIST ADVICE  
IN EMERGENCY ONLY  
PHONE 1800 033 111

# 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 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 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 (g 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         |
| Asparagus  | 1800           | 100                      | 200         |

| CROP      | WEEDS CONTROLLED   | STATE           | RATE            | CRITICAL COMMENTS   |
|-----------|--|-----------------|-----------------|---|
| Cotton    | 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 only   | 1.8 to 3.5 L/ha | <b>Pre-planting incorporation:</b> incorporate with Lillistone cultivators to a depth of no more than 5 cm. This product may be tank mixed with trifluralin. If a follow up pre-emergence treatment is used, do not exceed a total of 3.5 L/ha. Ensure that cotton seed placement is below the treated soil zone.<br><b>Pre-emergence:</b> spray bare, moist soil immediately after planting. Check nozzle output of boom sprayer and adjust speed and pressure to deliver 150-500 L/ha.<br><b>Post emergence:</b> apply when cotton is at least 30 cm high or immediately after last cultivation. Use 300-500 L water/ha as a directed spray to cover area beneath cotton plants and between rows. If annual weeds are present, add a surfactant to the spray mixture. Use higher rates on soils high in organic matter or clay. Avoid spray drift onto cotton plants as injury may result. DO NOT apply more than once per season. DO NOT plant other crops within one year of application. |
| Asparagus | Annual broadleaf weeds and some annual grasses   | <b>VIC only</b> | 2.7 to 3.6 L/ha | Apply in established beds after they have been "hilled up" and before emergence of spikes. This will give 10 to 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. DO NOT use on seedling asparagus. Use higher rates on heavier soils.   |

## BROADACRE CROPS

| CROP                                 | WEEDS CONTROLLED   | STATE             | RATE  | CRITICAL COMMENTS  |
|--------------------------------------|--|-------------------|---|--|
| Barley, Oats, Wheat                  | Capeweed, charlock, iceplant, mellilotus, mustards, poppy, saffron thistle, sheepweed, three-cornered jack, turnips, yellow burr weed  | NSW, Vic, SA only | 900 mL/ha   | Apply when weeds are at the 2 to 4 leaf stage and soon after the crop is past the 2 ½ leaf stage which is normally within 6 weeks of sowing. <b>DO NOT SPRAY LATER THAN THE EARLY TILLERING STAGE.</b>   |
| Barley, Wheat                        | Deadnettle   | SA only           | 850 mL/ha   | <b>Boom spray, post-emergence:</b> when the crop has reached the 2-4 leaf stage. Sow the crop at least 5 cm deep. Spray when weeds have germinated and are in 2-4 leaf stage, are actively growing and less than 6 weeks old.  |
|                                      | Soursob  |                   | 1.3 to 1.7 L/ha   | <b>Boom spray:</b> sow the crop at least 5 cm deep. Apply when the crop is in the 2-5 true leaf stage. Use lower rate on lighter soils.  |
| Barley, Cereal rye, Triticale, Wheat | Capeweed, mustard, three-cornered jack, turnip weed, wild radish, wild turnip  | NSW, Vic only     | 500 mL/ha plus 350 mL/ha MCPA Amine 500   | Apply by boom spray or aircraft when crop is at the 3-5 leaf stage (SA & NSW only) and 5 leaf (Vic-only). Weeds must be in the 2-5 leaf stage. <b>DO NOT</b> spray if rain is imminent. <b>DO NOT</b> apply to undersown medic or lucerne. <b>DO NOT</b> use on Kamilaroi, Olympic or Shortim Wheat.   |
|                                      | Amsinckia (yellow burr), capeweed, charlock, deadnettle, double gee (spiny emex), erodium, mustard, turnip weed, white ironweed (corn gromwell, sheepweed), wild radish, wild turnip |                   | 500 mL/ha plus 500 mL/ha MCPA Amine 500   |  |
| Barley, Oats, Wheat                  | Capeweed, double gee, erodium, London rocket, lupin, mustard, rapistrum, wild radish, wild turnip  | WA only           | <p>350 mL/ha plus 400 mL/ha MCPA Amine 500</p> <p>400 mL/ha plus 500 mL/ha MCPA Amine 500</p> <p>500 mL/ha plus 250 mL/ha 2,4-D Amine 500</p> | <p>Apply according to crop stage using boom spray or aircraft with 20-100 L water/ha.</p> <p>3-4 leaf stage (Zadoks 13-14)</p> <p>4-5 leaf stage (Zadoks 14-15)</p> <p>4-6 leaf (Zadoks 14-16)</p> <p>Apply when most weeds have germinated and are in 2-5 leaf stage. Crop 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. <b>DO NOT</b> apply to undersown medics. <b>DO NOT</b> use on crops grown on very light sandy soils low in organic matter and liable to drift. <b>DO NOT</b> apply later than 6 weeks after planting.</p> |

|                                    |   |                     |          |   |
|------------------------------------|---|---------------------|----------|---|
| Lupins<br>(on light soils<br>only) | Annual ryegrass,<br>capeweed, clovers,<br>doublegee, medic, wild<br>radish, wild turnip   | WA only             | 2 L/ha   | Apply at pre-sowing to pre-emergent stage. DO NOT use on white or grey sands as severe crop damage may result. Tank mix with Trifluralin where Annual ryegrass is expected to be a problem.   |
| Sugarcane                          | Amaranthus, barley<br>grass, barnyard grass,<br>capeweed, crowsfoot<br>grass, fat hen, guinea<br>grass, mustard, Prince<br>of Wales feather,<br>ryegrass, sow thistle,<br>summer grass, wild<br>radish, wild turnip | Qld,<br>NSW<br>only | 3.5 L/ha | In all areas except the Burdekin, apply immediately after planting or harvesting the crop and before crop, weeds and grasses emerge.<br>APPLY ONLY as a directed band spray over a maximum of 60% of the crop area<br>DO NOT apply in the Wet Tropics<br>DO NOT apply in the Burdekin between 1 January and 29 February<br>DO NOT apply in Mackay/Whitsunday between 1 December and 30 April<br>DO NOT apply in Mary-Burnett between 1 November and 29 February<br>DO NOT apply in NSW between 1 November and 30 April<br>Apply at this rate after crop emergence if an application was made at planting or after harvesting. |

#### NON-CROP SITUATIONS

| SITUATION                             | WEEDS CONTROLLED                                   | STATE                      | RATE  | CRITICAL COMMENTS   |
|---------------------------------------|--|----------------------------|---|---|
| Irrigation channels, Drainage ditches | Annual grasses, perennial grasses, broadleaf weeds | Qld, Vic, Tas, SA, WA only | 72 to 144 L/ha or 720 mL to 1.4 L per 100 square metres | 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.<br>Use lower rate on lighter soils.<br>DO NOT use channels or ditches for horticultural irrigation for 8 weeks after treatment. |
| Irrigation channels, Drainage ditches |  | NSW only                   | 20 to 40 L/ha or 200 mL to 400 mL per 100 square metres |   |
| Bore drains                           | Prickly acacia, mimosa bush                        | Qld only                   | 64 L/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 PERIOD

Harvest: WITHHOLDING PERIOD NOT REQUIRED WHEN USED AS DIRECTED  
Bore drains: DO NOT ALLOW ANIMALS TO DRINK WATER FROM TREATED BORE DRAINS FOR 3 DAYS BEFORE SLAUGHTER FOR HUMAN CONSUMPTION