

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 bananas, cereals, citrus, cotton, lucerne, pineapples, sugar cane, vineyards, rights-of-way, commercial and industrial areas

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.

Crop Safety

Pear – DO NOT use under dwarf trees.

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.

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.: 31685/1103

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

DIRECTIONS FOR USE

FRUIT AND VEGETABLE CROPS

CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Apples and Pears (established at least 1 year)	Amaranthus, barley grass, barnyard grass, capeweed, cobbler's-pegs, crowsfoot grass, fat hen, guinea grass, mustard, pigweed, ryegrass, sowthistle, summer grass, wild oats, wild radish, wild turnip	All states	Single application 7.2 L/ha	Apply under trees as a broadcast or band spray. Area should be cleared of weeds prior to spraying Bayer Diuron 500 SC Liquid Herbicide using a knockdown herbicide e.g. Glyphosate. Single application: apply in winter.
	Toad rush, wireweed	Qld, NSW, Vic, SA, WA only	Split application 3.6 L/ha	Split application: apply post harvest, with a second application in spring.
	Willow herb	Tas only		
Asparagus	Annual broadleaf weeds and some annual grasses	All states	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.

CROP	WEEDS CONTROLLED	STATE	RATE	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	3.5 to 7.2 L/ha	Directed spray to new plantings immediately after planting: Care should be taken to avoid spraying banana suckers. Directed spray to established plantings before weed emergence: Care should be taken to avoid spraying banana suckers. Use higher rates on heavier soils.
Citrus (established at least 1 year)		All states	3.5 to 7.2 L/ha	High volume or boom spraying: Apply a minimum of 300-500 L of spray mixture per sprayed hectare. Apply to bare moist ground prior to emergence of weeds in autumn and spring. If emerged annual weeds are present (up to 15 cm high) add a surfactant to the spray mixture. Avoid spray drift or contact onto fruit or foliage. Use with caution on light sandy soils as crop injury may occur and the low rate only should be used.
	Couch grass		1.3 L/200 L	Spot spray - Spray to the point of run-off.
Coffee	Annual broadleaf weeds and some annual grasses	Qld, NSW only	7.2 L/ha	Apply as an initial spray. Area should be cleared of weeds prior to spraying Bayer Diuron 500 SC Liquid Herbicide using a knockdown herbicide e.g. Glyphosate.
			3.6 L/ha	Subsequent Applications: frequency of application will depend on regrowth.
	Couch grass		1.3 L/200 L	Spot spray - Spray to the point of run-off.
Pawpaws (not for use on trees under 9 months old)	Annual broadleaf weeds and some grasses	Qld, NSW only	3.6 to 7.2 L/ha	Avoid contact with plants. Use higher rate on heavier soils. Note: this product is not suitable if weed growth is above 8 cm high.
Pineapples	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	7.2 L/ha	Overall blanket spray: apply in a minimum of 2000 L water per hectare. Treated areas may be re-planted to pineapples or sugar cane one year after last application.
			7.2 L/ha	Plant crops: apply after planting and before weed emergence. Repeat as necessary.
			3.5 L/ha	Repeat spray: if necessary, but not less than 2 monthly intervals. DO NOT apply more than 14.4 L per hectare (i.e. 2 blanket applications) before fruit differentiation or flower bud formation, nor more than 20 L per sprayed hectare per plant crop. After flower bud formation treat inter row spaces only.
			7.2 L/ha	Ratoon crop: apply immediately prior to the first rains on weed free soil.
			3.5 L/ha	Repeat spray.
Vineyards (vines must be older than 3 years)		All states	3.5 to 7.2 L/ha	Band treatment to crop rows: apply to established vines at least 3 years old. Apply to moist soil prior to emergence of weeds. DO NOT apply to vines of butt diameter less than 4 cm. Use lower rate where annual and winter weeds are to be controlled. Avoid spray drift or contact onto fruit or foliage.

BROADACRE CROPS

CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Barley, Oats, Wheat	Capeweed, charlock, iceplant, melilotus, 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. DO NOT SPRAY LATER THAN THE EARLY TILLERING STAGE.
Barley, Wheat	Deadnettle	SA only	850 mL/ha	Boom spray, post-emergence: 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	Boom spray: 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. DO NOT spray if rain is imminent. DO NOT apply to undersown medic or lucerne. DO NOT 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. DO NOT apply to undersown medics. DO NOT use on crops grown on very light sandy soils low in organic matter and liable to drift. DO NOT apply later than 6 weeks after planting.</p>

BROADACRE CROPS (continued)

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	<p>Pre-planting incorporation: 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.</p> <p>Pre-emergence: spray bare, moist soil immediately after planting. Check nozzle output of boom sprayer and adjust speed and pressure to deliver 150-500 L/ha.</p> <p>Post emergence: 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.</p>
Lucerne (established for 1 year or more)	Amaranthus, barley grass, barnyard grass, capeweed, crowsfoot grass, fat hen, guinea grass, mustard, Prince of Wales feather, ryegrass, sow thistle, summer grass, wild radish, wild turnip	SA only	3.5 L/ha	Boom sprayer application just prior to or at weed emergence only.
	Barley grass, ryegrass	Qld, NSW, Vic only		Boom sprayer application during the dormant period. In sub-tropical areas during the June/August period.
Lupins (on light soils only)	Annual ryegrass, capeweed, clovers, doublegee, medic, wild 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.
Perennial grass seed crops	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	SA, Vic only	2.8 to 4.5 L/ha	Boom spray: apply during the dormant period before weeds emerge. Use the higher rate on heavier soils and in areas where ash residues may have accumulated from burning fallow. Apply to established plantings (i.e. at least one year old Phalaris, Currie cocksfoot and Demeter fescue).
Sugarcane	Amaranthus, barley grass, barnyard grass, capeweed, crowsfoot grass, fat hen, guinea grass, mustard, Prince of Wales feather, ryegrass, sow thistle, summer grass, wild radish, wild turnip	Qld, NSW only	5.6 to 7.2 L/ha	<p>In all areas except the Burdekin, apply immediately after planting or harvesting the crop and before crop, weeds and grasses emerge.</p> <p>Band or overall spray: apply after planting or harvesting and before crop emergence.</p> <p>Directed spray: after cultivation to emerged cane.</p> <p>Apply at this rate after crop emergence if an application was made at planting or after harvesting.</p> <p>Apply where emerged annual weeds or grasses (15 cm or less in height) are present at spraying time. When surfactant is added, apply as a direct spray avoiding contact with the cane spindle.</p>
			5.6 to 7.2 L/ha	
			3.5 L/ha	
			5.6 to 7.2 L/ha plus 500 mL surfactant/ 100 L spray mixture	

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. Use lower rate on lighter soils. 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	
Rights-of-way, commercial & industrial areas	Annual grasses, perennial grasses, broadleaf weeds	All states	<p>8 to 32 L/ha 32 to 64 L/ha 48 to 72 L/ha</p> <p>6.4 to 12.8 L/ha 12.8 to 25 L/ha 16 to 32 L/ha</p> <p>400 mL to 1.6 L/100 L 1.6 to 3.2 L /100 L 2.4 to 3.6 L /100 L</p> <p>320 to 640 mL/100 L 640 mL to 1.2 L/100 L 800 mL to 1.6 L/100 L</p>	<p>Railway tanker or boom sprayer - initial treatment: Annual rainfall 0-500 mm Annual rainfall 500-1000 mm Annual rainfall 1000 mm and over</p> <p>Re-treatment: Annual rainfall 0-500 mm Annual rainfall 500-1000 mm Annual rainfall 1000 mm and over</p> <p>High volume or power spraying - initial treatment: Annual rainfall 0-500 mm Annual rainfall 500-1000 mm Annual rainfall 1000 mm and over</p> <p>Re-treatment: Annual rainfall 0-500 mm Annual rainfall 500-1000 mm Annual rainfall 1000 mm and over</p> <p>If moderate weed growth (i.e. greater than 15 cm in height) is present at the time of spraying add a knockdown herbicide to the mixture. Apply to short growth. Apply just before or during the active growing season. DO NOT treat during the dry season.</p> <p>Time application so that rainfall afterwards will take the chemical down to the root zone for uptake by the roots. For application by railway tanker or boom sprayer apply in 400-800 L water per hectare. For power spraying or hand spraying equipment apply the equivalent of at least 2000 L per hectare.</p>
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