

# DIURON + HEXAZINONE

## Broad-spectrum residual herbicide


BOBCAT® COMBI WG,  
BARRAGE

**Bobcat Combi, Barrage: diuron – 468g/kg, hexazinone – 132g/kg**

Pre-emergent and knockdown herbicide for control of grasses and broadleaf weeds. Controls summer grass, barnyard grasses, green summer grass, Guinea grass, crowsfoot, thickhead, square weed, bell vine, convolvulus vines, star of Bethlehem, stinking passion vine, itch grass, centro and giant sensitive plant.

HERBICIDE SUITABILITY		
SOIL CONDITIONS	Best applied to moist soil. Do not use on light sandy soils. Do not use in waterlogged areas. Widely used over a trash blanket.	
	<table border="0"> <tr> <td><b>SAND</b> Leaching with excessive rainfall may cause crop damage.</td> <td><b>CLAY</b> Higher rates may be required for effective control.</td> </tr> </table>	<b>SAND</b> Leaching with excessive rainfall may cause crop damage.
<b>SAND</b> Leaching with excessive rainfall may cause crop damage.	<b>CLAY</b> Higher rates may be required for effective control.	
INCORPORATION	Incorporate with 25–50mm of rainfall or overhead irrigation from 4 to 10 days after application.	
TARGET WEED CONDITIONS	Knockdown of annual grasses and broadleaf weeds up to 15cm. Best knockdown results are achieved under conditions of high humidity and temperatures higher than 21°C. If weeds are present, use 250-500mL/100L of nonionic surfactant (1000g ac/L).	
CROP STAGE	Do not apply in young plant cane. Apply as a directed spray where sugarcane has emerged. Broadcast or band spray over ratoon cane before emergence.	
CULTIVATION AND IRRIGATION	Do not disturb soil. Flood irrigation and cultivation may expose soil and reduce the length of control.	
VARIETY SUSCEPTIBILITY	Most varieties are highly susceptible to foliar damage.	
RISK TO OTHER CROPS	Avoid drift onto non-target areas/crops. Low volatility.	
PLANT BACK PERIOD	Do not replant treated areas to any other crop within 2 years after last application. Treated areas may be replanted to sugarcane one year after last application.	
ENVIRONMENTAL RISK	PSII herbicide. Leaching may occur on soil with high sand and gravel content. Do not use near desirable trees, lawns, walkways or similar areas. Do not apply if greater than 50mm rainfall is expected within 3 days. Do not spot spray more than 5% of total farm areas. Do not irrigate within 3 days. Do not apply to slopes >3%. Do not apply more than once per calendar year. Do not apply when there is non-target vegetation or aquatic and wetland areas downwind from the application area and within the mandatory no-spray zones shown in table next page.	
HERBICIDE RESISTANCE	Moderate risk (Group C).	

Continued over page

BOBCAT COMBI WG	
SIGNAL HEADING	<b>DANGER</b>
PICTOGRAM	
HAZARD STATEMENT	<p><b>H302</b> Harmful if swallowed.</p> <p><b>H320</b> Causes eye irritation.</p> <p><b>H351</b> Suspected of causing cancer.</p> <p><b>H373</b> May cause damage to organs through prolonged or repeated exposure.</p> <p><b>H410</b> Very toxic to aquatic life with long-lasting effects.</p>

BOBCAT COMBI WG, BARRAGE	
FORMULATION	Water dispersible granule.
WATER QUALITY	Generally not affected by water pH or hardness.
APPLICATION EQUIPMENT	<p>Directed spray in plant cane.</p> <p>Broadcast, banded or directed spray in ratoon cane.</p> <p>Use nozzles that produce COARSE droplets.</p> <p>Do not apply by aircraft.</p>

APPLICATION RATES					
PRODUCT	RATE/HA	INDICATIVE COST/HA (GST INCLUSIVE)	WATER RATE	USE SITUATION	NO-SPRAY PERIOD (DO NOT USE BETWEEN THESE DATES)
BOBCAT COMBI WG	600–900g + 1200–1600mL paraquat (250g/L)	\$14–\$20 + \$11–\$15	400–600L	Plant and ratoon directed spray	Can use any time of year in all regions.
	3000–4000g	\$69–\$91		Ratoon (after harvest and BEFORE cane and weed emergence)	<p><b>Wet Tropics:</b> do not apply at any time</p> <p><b>Burdekin:</b> 1 December – 29 February</p> <p><b>Mackay/Whitsunday:</b> 1 November – 31 May</p> <p><b>Mary/Burnett:</b> 1 November – 31 May</p> <p><b>NSW:</b> 1 November – 30 April</p>
				Plant and ratoon (directed band spraying over a maximum of 60% of crop area)	<p><b>Wet Tropics:</b> do not apply at any time</p> <p><b>Burdekin:</b> 1 January – 29 February</p> <p><b>Mackay/Whitsunday:</b> 1 November – 31 May</p> <p><b>Mary/Burnett:</b> 1 November – 29 February</p> <p><b>NSW:</b> 1 November – 31 March</p>
	Spot spray 1000g/100L			To control Guinea grass	Can use any time of year in all regions.

**Note:** Refer to Appendix 3 for additional Queensland legislative constraints for diuron

BUFFER ZONES FOR DIURON + HEXAZINONE (E.G. BOBCAT COMBI) IN SUGARCANE		
USE TYPE	DOWNWIND BUFFER ZONE (M)	
	AQUATIC	TERRESTRIAL
USED ALONE	100	200
MIXED WITH PARAQUAT	25	50