

FLUMIOXAZIN

Knockdown enhancer and/or broad- spectrum residual herbicide


VALOR® 500 WG

Flumioxazin – 500g/kg

For enhanced knockdown and control of various vine and broadleaved weeds when mixed with the non-selective herbicides paraquat/diquat, glufosinate, glyphosate and also atrazine; and/or

For long term residual weed control for a range of broadleaves and grasses, including calopo, fleabane, blackberry nightshade, wild rose, square weed, billygoat weed, balsam pear, pig weed, giant pigweed, milkweed, sicklepod, common sida, spider flower, amaranthus, pink convolvulus, red convolvulus, morning glory, star of Bethlehem, summer grass, green summer grass, feather top Rhodes grass, barnyard grass, crowsfoot grass.

HERBICIDE SUITABILITY	
SOIL CONDITIONS	Flumioxazin is relatively poorly water soluble, and therefore good soil moisture is critical for effective residual control of weeds – see Incorporation below. Do not apply in sandy soils in areas where the slope exceeds 4%.
INCORPORATION	<i>For residual control of weeds:</i> Soil should be moist at time of application, either from summer rainfall or irrigation. Follow-up rainfall or irrigation (at least 15mm) is required within 3 weeks of application. Do not disturb treated soil surface after application.
TARGET WEED CONDITIONS	Do not apply as a spike for enhanced knockdown if weeds are stressed.
CROP STAGE AND CONDITIONS	For plant cane, apply after fill-in. Very thick trash may reduce residual performance due to low solubility.
CULTIVATION AND IRRIGATION	Soil and or trash movement either by cultivation, irrigation or rainfall may reduce residual performance.
VARIETY SUSCEPTIBILITY	Avoid contact with cane leaves – some localised phytotoxicity may occur but cane will grow out of it quickly. Does not translocate.
WITHHOLDING PERIOD	Do not harvest sugarcane for 22 weeks after application. Do not graze or cut sugarcane for stockfeed for 22 weeks after application.
PLANT BACK PERIOD	Peanuts: 5 months. Soybeans: 5 months. Mungbeans: 8 months (rotation crop planted after soil has been thoroughly cultivated).
ENVIRONMENTAL RISK	Low solubility reduces the risk of losses through leaching and in-solution in run-off. Very toxic to aquatic life. Do not irrigate to the point of run-off for at least 3 days after application. Do not apply if heavy rains or storms that are likely to cause run-off are forecast within 3 days. Do not apply more than 1 application per year. Do not apply when wind speed is less than 3km/h or more than 20km/h. Do not apply during surface temperature inversions. Do not apply if there are aquatic and wetland areas within 5m downwind from the application site. Do not apply if there are sensitive crops, gardens, landscaping or protected native vegetation or protected animal habitat within 120m downwind of the application site.
HERBICIDE RESISTANCE	Moderate risk (Group G).

VALOR 500 WG	
SIGNAL HEADING	DANGER
PICTOGRAM	
HAZARD STATEMENT	H360D CLP only – May damage the unborn child. H400 + H410 Very toxic to aquatic life with long-lasting effects.
FORMULATION	Water dispersible granule (contained in a water soluble satchel).
WATER QUALITY	Do not apply in high pH water (pH > 7), or allow the mix to stand overnight.
APPLICATION EQUIPMENT	Do not apply by aircraft. Apply using at least a COARSE spray quality.

APPLICATION RATES				
1. IN-CANE, FOR ENHANCED KNOCKDOWN IN MIXTURES WITH NON-SELECTIVE HERBICIDES				
PRODUCT	RATE/HA	INDICATIVE COST/HA (GST INCLUSIVE)	WATER RATE L/HA	COMMENTS
VALOR 500 WG + PARAQUAT 250 or SPRAY.SEED 250/ REVOLVER	90–120g + 1200–1600mL or 1200–2400 mL	\$15–\$19 + \$11–\$15 or \$13–\$27	250L minimum	Apply after fill-in in plant cane or in ratoons. Apply when broadleaf and vines are < 9-leaf stage. Apply as a directed spray to base of cane plants. For vines, the growing tip must be sprayed. Add a non-ionic surfactant or a crop oil concentrate such as Hasten. Keep records of use as per label instructions. Follow sprayer cleanup instructions on the label.
VALOR 500 WG + ATRAZINE	90–120g + 2200– 3300g	\$15–\$19 + \$20–\$30		When calopo or sicklepod are present the addition of atrazine may improve knockdown. Do not apply more than 3300g/ha atrazine PRODUCT per year (3000g ai atrazine/ha/year).

Note: Valor 500 WG also enhances the knockdown of glyphosate on broadleaf weeds and vines – do not allow glyphosate to drift onto cane.

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2. IN-CANE, FOR ENHANCED KNOCKDOWN IN MIXTURES WITH NON-SELECTIVE HERBICIDES AND LONG TERM RESIDUAL CONTROL

USE SITUATION	PRODUCT	RATE/HA	INDICATIVE COST/HA (GST INCLUSIVE)	WATER RATE L/HA	COMMENTS
Bare soil situations in higher rainfall areas or with supplementary irrigation (including ratoons with no trash blanket)	VALOR 500 WG	350–560g	\$56–\$90	200L minimum	<p>For residual control, Valor 500 WG should be applied to moist soil with follow-up rain or irrigation of at least 15mm within 3 weeks, particularly on trash.</p> <p>Apply after fill-in in plant cane.</p> <p>If existing weeds are present at the 2 to 8-leaf stage, add non-selective knockdown herbicide (e.g. paraquat).</p> <p>If grasses greater than 3-leaf are present, adding a low rate of diuron (275–500g/ha) to paraquat will improve knockdown.</p> <p>When calopo or sicklepod are present the addition of atrazine may improve knockdown.</p> <p>Add a non-ionic surfactant or a crop oil concentrate such as Hasten, if existing weeds are present.</p> <p>Keep records of use as per label instructions.</p> <p>Follow sprayer cleanup instructions on the label.</p>
Ratoons with trash blanket Or Plant and ratoon with bare soil in low rainfall areas and flood irrigation (Burdekin)		560–700g	\$90–\$113		