

# VALOR® APPLIED AS A LAY-BY APPLICATION IN COTTON

## USING SHIELDED SPRAYERS TO CONTROL LATE GERMINATING WEEDS AND WEEDS THAT HAVE ESCAPED PREVIOUS HERBICIDE OPERATIONS

At 60 - 90 g/ha, Valor will control a number of troublesome broadleaved weeds:

- Bladder Ketmia – up to six leaf stage
- Noogoora burr – up to six leaf stage
- Cow vine (Peach vine) – up to twelve leaf stage
- Yellow vine – up to 12 leaf stage
- Bellvine – up to twelve leaf stage
- This is not an exhaustive list. Always refer to the most recent label for the full list of weeds covered.

Apply between the rows as a shielded spray underneath cotton foliage. Valor may be mixed with residual herbicides to broaden the spectrum of control and to prolong residual activity.

### IMPORTANT CONSIDERATIONS

- Do not apply until the cotton plants are 40 cm tall.
- Do not allow contact with green bark, stems and foliage. Direct the nozzles to spray as close as possible to the stems but only if the bottom section of the stem has bark on it.
- If there is a risk of spraying green bark, shielded application or the use of droppers for a directed spray is recommended.
- Do not apply in conditions conducive to drift.
- Valor is a contact herbicide. Always add a labeled adjuvant and ensure good coverage with medium to coarse droplets. The use of nozzles that deliver very coarse droplets when applying Valor is NOT recommended. A minimum of 80 L spray mixture/ha is recommended.

## RECOMMENDATIONS FOR LAY-BY APPLICATION



*Lay-by application using drop-arms.  
Note how the spray pattern is adjusted away from  
the stems.*



*The minimum length of stem that must be covered  
by brown bark before contact with Valor can occur,  
and that would allow for the directed spray pattern to  
overlap at the base of the stem.*

## DIRECTIONS FOR USE

(Refer to the Valor label for comprehensive details)

### RESTRAINTS:

DO NOT apply by air.

DO NOT treat weeds under poor growing or dormant conditions (such as occur in drought, waterlogging, disease, insect damage or following frosts) as reduced control may result. Weeds should be actively growing at time of treatment.

DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour, as measured at the application site.

DO NOT apply during surface temperature inversion conditions at the application site.

Crop/Situation	Weeds controlled	Weed growth stage	Rate	Critical comments
Cotton Lay-by application	Noogoora burr Caltrop, Yellowvine ( <i>Tribulus terrestris</i> & <i>T. micrococcus</i> )	< 4 leaf <10 cm diameter	60 g/ha plus an adjuvant*	Apply as a shielded spray underneath cotton foliage and to inter rows to control late germinating weeds, or weeds that have escaped previous herbicide operations.  Best results are obtained when applied to young weeds between the 2- and 6-leaf stage.
	Bellvine Bladder ketmia Cow/Peach vine Spiked malvastrum ( <i>Malvastrum americanum</i> ) Black pigweed Red pigweed Annual polymeria ( <i>Polymeria pusilla</i> ) Sow thistle Dwarf amaranth ( <i>Amaranthus macrocarpus</i> )	<12 leaf <6 leaf < 12 leaf <10 cm diameter  <12 leaf <15 cm diameter <6 leaf  <4 leaf < 4 branch	90 g/ha plus an adjuvant*	Vines that have commenced climbing may not be controlled. CAUTION: Valor 500 WDG will defoliate any cotton foliage that is contacted by the spray. Shielded sprayers must be operated to ensure that spray does not make contact with cotton foliage.  DO NOT apply in conditions conducive to drift.  DO NOT apply until cotton plants are 40 cm tall.  DO NOT allow contact with green bark on stems or trunks.

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

### WITHHOLDING PERIOD (COTTON):

GRAZING: DO NOT ALLOW LIVESTOCK TO GRAZE VEGETATION PRESENT AT TIME OF TREATMENT FOR 2 WEEKS AFTER APPLICATION. DO NOT GRAZE OR CUT CROPS PLANTED FOLLOWING TREATMENT FOR STOCK FOOD FOR 6 WEEKS AFTER APPLICATION.

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.

\* Always apply with Hasten™ Spray Adjuvant or Kwickin™ Spray Adjuvant at 0.5 - 1 L/100 L (use the lower rate on smaller, actively growing weeds), or Uptake™ Spraying Oil at 500 mL/100 L.



For further information on Valor 500 WG Herbicide, please contact:

Patrick Press (QLD) 0417 085 160  
 Phil Glover (N NSW) 0418 668 586  
 Ardina Jackson (N NSW & S QLD) 0477 967 509  
 Frank Galluccio (S NSW) 0418 502 466  
 Danita Clark (Central QLD) 0447 000 622  
 OR our Sydney office: (02) 8752 9000

[www.sumitomo-chem.com.au](http://www.sumitomo-chem.com.au)

ABN 21 081 096 255

Level 5, 51 Rawson Street, EPPING NSW 2121  
 TEL: (02) 8752 9000 FAX: (02) 8752 9099

Valor is a registered trademark of Sumitomo Chemical Company, Japan.  
 Kwickin is the trademark of Gulf Ag Pty Ltd.  
 Hasten is the trademark of Victorian Chemicals.  
 Uptake is the trademark of Dow AgroSciences.

# NO PLANT-BACK RESTRICTIONS FOR MOST COMMON ROTATION CROPS

## APPLICATION

At the rates registered for cotton in Australia, Valor acts as a contact herbicide. It is non-systemic, and is therefore reliant on good coverage. The following steps can be taken to optimise its efficacy:

- Adjust spray equipment to deliver a medium to coarse droplet. The use of nozzles that deliver very coarse droplets is not recommended. Spray at low (200 - 300 kPa) pressure.
- Do not apply in less than 80 L water/ha. Always use a labeled adjuvant.
- Do not apply in conditions that are conducive to drift, particularly during lay-by, as direct contact with the herbicide will cause symptoms on affected leaves.

## GROUP G AND GLYPHOSATE MIXTURES DURING THE SUMMER MONTHS

Under certain conditions the difference in mode of action between Group G herbicides and glyphosate, particularly to hardened or drought-stressed weeds, may cause only localized injury to the weeds and re-growth may occur. This incompatibility is related to the speed at which Group G herbicides incapacitate the leaf so that the glyphosate in the mixture is not taken up.

The potential for incompatibility is highest during the warm summer months, when the combination of high temperature and high light intensity (both contributing to accelerated death of cells and browning of the leaf) causes the Group G product to kill the leaf so quickly that the non-selective herbicide in the mixture is not completely absorbed by the plant. As a result and because the systemic activity of glyphosate is impaired, re-growth may occur after the initial browning effect.

- Incompatibility is less likely to occur in winter or early spring (during periods of lower light intensity) than in summer.
- The potential for incompatibility is particularly high in salvage situations where grasses and bigger weeds are the herbicide targets.
- Reduce the risk by spraying at night or late in the afternoon.

## GROWTH STAGE OF WEEDS

As a pre-plant burndown, Valor is most effective when applied to small weeds. Do not treat weeds under poor growing or dormant conditions (such as drought, waterlogging, following frosts, disease or insect damage).

Weeds recovering from a non-lethal dose of a previous herbicide may not respond to Valor Herbicide.

## PLANTBACK AND CROP ROTATIONS

The registered rates for cotton are 30 to 90 g/ha, and are intended as foliar applications, post-emergent of the target weeds. At these rates there are no plant back restrictions for the following crops, even after a lay-by application at the 90 g/ha rate:

### Summer crops:

Cotton, maize, sorghum, soybeans, mung beans and sunflower.

### Winter field crops:

Wheat, barley, oats, faba beans, chickpeas, lentils and lupins.

# HOW TO GET THE BEST RESULTS FROM VALOR

## CHOICE AND RATE OF NON-SELECTIVE HERBICIDE PARTNER

Always choose the appropriate rate for the partner herbicide for the conditions – taking weed spectrum, growth stage, and environmental conditions into consideration. The addition of Valor will accelerate and enhance the performance of the non-selective partner.

## ADJUVANT

The addition of an adjuvant, usually crop oil concentrate, aids the penetration of Valor through the waxy leaf surface to improve control of weeds. Always add an adjuvant to the spray mixture. Valor is recommended to be used with Hasten™ Spray Adjuvant, Kwickin™ Spray Adjuvant and Uptake™ Spraying Oil.

The use of Du-wett® Low Volume Application Spreader, organosilicone-type adjuvants or LI-700® is not recommended.

## COMPATIBILITY

Valor is compatible with Nufarm Glyphosate CT, Roundup®, Roundup Attack with iQ inside, Roundup Ready with Plantshield, Spray.Seed® 250 Herbicide and Gramoxone® 250 Herbicide.

## RE-ENTRY

Do not enter treated areas until the spray has dried, unless wearing suitable protective clothing. Refer to the registered product label for details.

## ENVIRONMENTAL FATE

Flumioxazin degrades rapidly in water and soil. Dissipation occurs by a combination of hydrolysis and microbial oxidation.



[www.sumitomo-chem.com.au](http://www.sumitomo-chem.com.au)

ABN 21 081 096 255

Level 5, 51 Rawson Street, EPPING NSW 2121  
TEL: (02) 8752 9000 FAX: (02) 8752 9099

Valor is a registered trademark of Sumitomo Chemical Company, Japan. Roundup, Roundup Ready and Roundup Attack are the trademarks of Monsanto Australia Limited. Gramoxone and Spray.Seed are the registered trademarks of a Syngenta Group Company. Du-Wett is the registered trademark of Elliott Chemicals Limited. LI-700 is the registered trademark of United Agri Products. Kwickin is the trademark of Gulf Ag Pty Ltd. Hasten is the trademark of Victorian Chemicals. Uptake is the trademark of Dow AgroSciences.