



VALOR® 500 WG HERBICIDE TECHNOTE

EXTENDED WEED CONTROL FOR CHANNEL BANKS

Overview

Valor is a highly valuable and safe tool for residual weed control and enhanced knockdown on irrigation channel banks. With long term residual action and stable chemical properties Valor keeps your channel banks cleaner for longer.

- Contains flumioxazin 500 g/kg as a WG (Wettable Granule).
- Can control germinating weeds for up to 155 days.
- Strong burndown ability on emerged weeds.
- Low risk of herbicide movement.
- No mandatory flush of channels required unless less than 15 mm of rain falls within 3 weeks.
- Strength against difficult weeds such as fleabane, feathertop rhodes grass and milk/sow thistle.
- PPO group G mode of action for resistance management, no recorded resistance in Australia.
- Can be mixed with other suitable herbicides if required.



Valor has chemical properties suited to channel bank use

| Chemical Property | Measurement | Rating | SUITABILITY FOR CHANNEL BANK USE |
|---|-------------|-----------------|----------------------------------|
| Leachability Index (GUS) | 1.41 | Low | ✓ |
| Potential for particle bound transport index* | - | Low | ✓ |
| Solubility (in water at 20°C, mg l-1) | 0.79 | Very low | ✓ |
| Volatility (vapour pressure at 25°C, mPa) | 0.32 | Low | ✓ |
| Soil absorption (K _{oc}) | 889 | Slightly mobile | ✓ |
| pH sensitivity | - | Not sensitive | ✓ |

* Potential for particle bound transport index is a physico-chemical property linked to solubility, soil binding and DT50, it takes no account of the local environmental conditions and is a general indication of hazard only (University of Herfordshire).

Directions for use

EXTENDED WEED CONTROL FOR CHANNEL BANKS

| Crop situation | Weeds controlled | Rate | Critical comments |
|---|---|----------------|---|
| Irrigation channel banks and drainage ditches | <i>Amaranthus</i> spp., Balsam pear, Barnyard grass, Bladder ketmia, Bluetop/Billygoat weed, Calopo, Caltrop/yellow vine, Crowsfoot, Feathertop rhodes grass, Fleabane, Green summer grass, Morning glory, <i>Ipomoea</i> spp. (Bell vine, Morning glory, Pink convolvulus, Star of Bethlehem), Milk/sow thistle, Milkweed, <i>Phyllanthus</i> spp. Red pigweed, Sicklepod, Summer grass, Square weed, Wild rose. | 560 - 700 g/ha | <p>Valor herbicide needs at least 15 mm of rain to incorporate/activate, and therefore should be applied during the main rainfall period when 15 mm of rain is expected within 3 weeks.</p> <p>Channels must be completely empty at the time of application. If the required rain has not fallen and it is necessary to use the irrigation channel, fill it with water and allow it stand for 24 hours then drain off the water in the channel and run to waste. If existing weeds are present at >2 leaf stage then non-selective knockdown herbicides such as paraquat or glyphosate should be used to control these in mixtures with Valor.</p> <p>For improved burndown apply with Hasten™ 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.</p> |

Rules of thumb for applying Valor on channel banks

1. Channels must be empty at time of application.
2. Need 15 mm of rain within 3 weeks after application to incorporate (once this occurs – it's ok to fill channel and irrigate).
3. If required rain has not fallen in time, then fill channel with water, allow to stand for 24 hours, drain water off to waste and refill channel for irrigation.
4. If weed coverage is greater than 20% remove weeds with a separate knockdown herbicide application before applying Valor.

Note: Valor is not taken up by plant roots, therefore there is no risk of residues in any emerged crop through treated soil from the channel moving into the field.

CHANNEL BANK TRIAL – RED CRACKING CLAY SOIL, SWAN HILL, VIC 2015

Photos: 155 days after treatment.



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