

Liberty – your Link to your future success



Liberty Link Cotton varieties

The Liberty Link cotton varieties that are available through CSD for the 2007/08 season are:

- **Sicot 80 L** – has a full season vigorous growth habit suited to central, northern and western production areas and dryland systems. It has good fibre.
- **Sicala 43 L** – has early to medium maturity and is best suited to southern and eastern districts.
- **Siokra V-18 L** – is a medium maturing okra leaf variety best suited to southern and eastern production areas. The okra leaf provides some pest resistance, particularly against mites.

In many cases transgenic varieties are developed from a well known conventional variety. For example Sicot 80 L has been developed in backcross programs from Sicot 80 and the yield potential, growth habit, fibre properties and disease resistance of the transgenic versions will be similar to Sicot 80.

Seed treatments

Gaicho® and Amparo® are the two insecticidal seed treatment options available on Liberty Link Cotton varieties this year.

As a third option, a non-insecticidal seed treatment (DAP) is also available, giving growers the opportunity to use the soil insecticide Temik®.

Liberty Herbicide should only be used in Liberty Link Cotton varieties



Liberty Herbicide provides control of the weeds stated below at the 2-6 leaf stage:

- | | |
|--|--------------------------------------|
| ✓ Annual polymeria | ✓ Bellvine |
| ✓ Bladder ketmia | ✓ Caltrop |
| ✓ Dwarf amaranth | ✓ Field bindweed (European bindweed) |
| ✓ Paddy melon | ✓ Peach vine |
| ✓ Red pigweed | ✓ Rhyncho (Rhynchosia) |
| ✓ Sesbania pea | ✓ Sowthistle (Milk thistle) |
| ✓ Volunteer cotton (other than Liberty Link) | ✓ Yellow vine |

Liberty Herbicide provides suppression of the weeds stated below at the 2-6 leaf stage:

- ✓ Chinese lantern (Wild gooseberry)
- ✓ Noogoora burr complex

Climatic conditions

Best results are achieved when Liberty Herbicide is applied under warm humid conditions, (e.g. temperatures below 33°C with a relative humidity above 50%). Under any other conditions efficacy and speed of action of Liberty Herbicide may be reduced.



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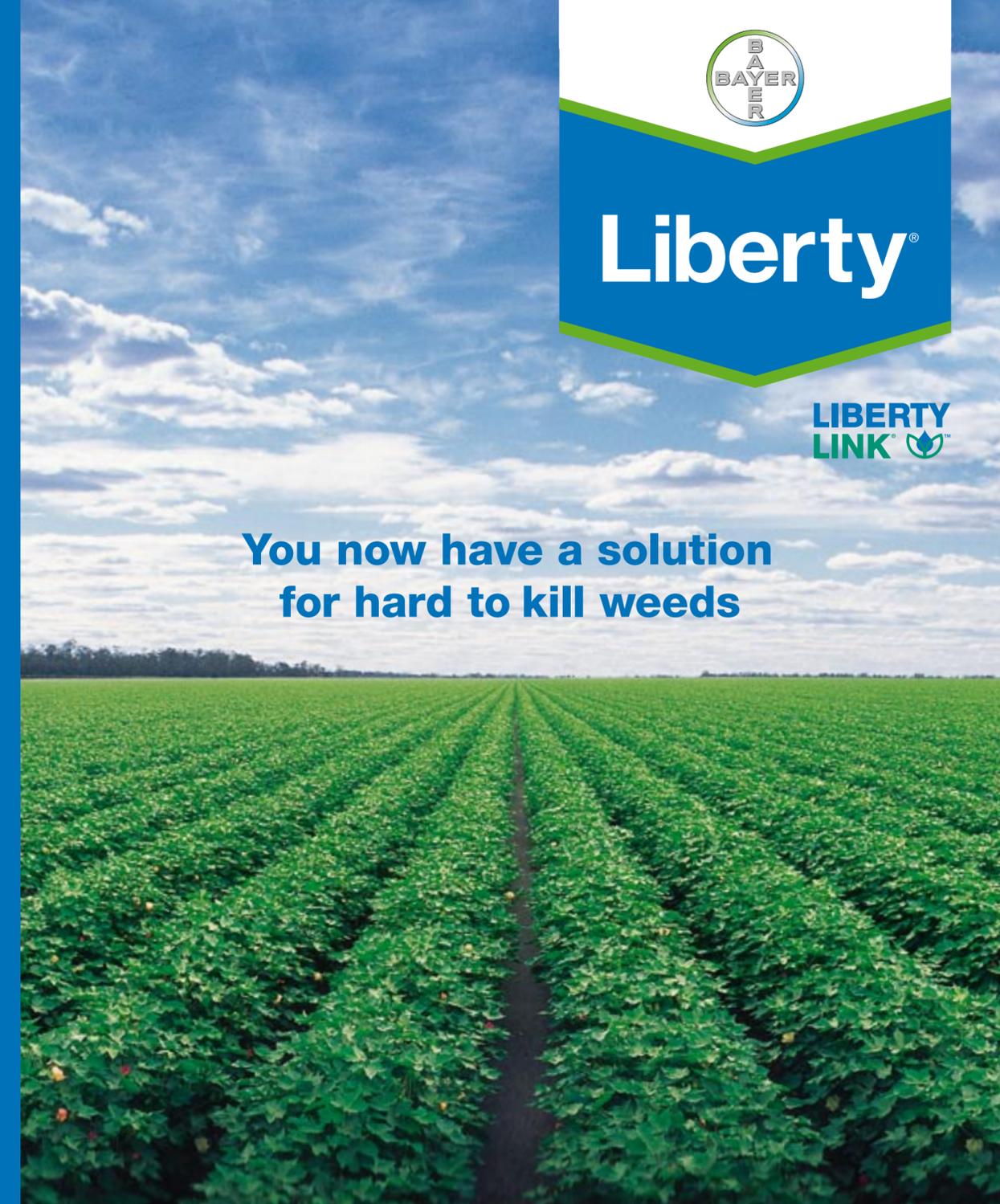
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Disclaimer: The information and recommendations set out in this brochure are based on tests and data believed to be reliable at the time of publication. Results may vary, as the use and application of the products is beyond our control and may be subject to climatic, geographical or biological variables, and/or developed resistance. Any product referred to in this brochure must be used strictly as directed, and in accordance with all instructions appearing on the label for that product and in other applicable 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.

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You now have a solution for hard to kill weeds



Introducing Liberty Link®

Liberty Link® Cotton is the first genetically modified crop developed and sold by Bayer CropScience in Australia. Liberty Link Cotton has been developed to be tolerant to Liberty® 200 Herbicide.

Liberty Herbicide contains the active ingredient glufosinate-ammonium, a member of the glycine group of herbicides, Group N, and offers a new and exciting option for weed management in cotton.

Liberty Herbicide is a non-volatile herbicide with selective activity against many annual weeds in Liberty Link® cotton varieties.

The key benefits of Liberty Herbicide include:

- Control of hard to kill weeds including volunteer cotton (excluding Liberty Link Cotton), peach vine, sesbania pea and bladder ketmia.
- A novel herbicide group – Group N, providing a new herbicide rotation option.
- A wide application window – up to 70 days prior to harvest.
- An easy to use product which doesn't require wetter to be added.
- Low hazard to the operator.
- Good environmental profile.
- An easy to mix product.



Application equipment



Liberty Herbicide can only be applied through a ground boom sprayer

Ground boom sprayers only

Aim to apply a thorough and even coverage of spray to the target weed. Dense stands of weeds should be thoroughly wetted with spray. Incomplete coverage may result in poor control. Equipment set-up should be such that adequate coverage, penetration and volume of spray liquid can be achieved while the potential for off-target movement is minimised, by consideration of factors including nozzle type and size, spray pressure, temperature, relative humidity, wind speed and direction.

Liberty Herbicide should be applied at the recommended rate in sufficient water to give thorough coverage of weeds. Application volumes of at least 100 L water/ha through flat fan nozzles with a droplet size of 200 to 300 microns (a fine to medium spray) is recommended for most situations.

Sprayer cleanup

Clean all equipment after use by thoroughly flushing with water.

Mixing instructions

Liberty Herbicide mixes easily with water. Clean water should always be used.

Ensure that the spray tank is free of any residues of previous spray materials. Two-thirds fill the spray tank with clean water, and with the agitator operating add the required amount of Liberty Herbicide. Add other relevant compatible products. Top the tank up to the required volume with clean water with agitator running.

An application for registration of Liberty Herbicide has been made, but at the time of publication this product is not registered.

Liberty Herbicide efficacy

The photos below demonstrate the efficacy of Liberty Herbicide on non Liberty Link volunteer cotton (*Gossypium hirsutum*).



0 DAT



3 DAT



20 DAT

The photos below demonstrate the efficacy of Liberty Herbicide on peach vine (*Ipomea lonchophylla*).



0 DAT



3 DAT



20 DAT

Symptoms

As shown in the photos above visible symptoms of control appear in 3 to 7 days, but complete desiccation may take as long as 20 to 30 days under cool conditions

