



ADAMA

Encode® 500 WG herbicide

Product overview

Encode® 500 WG is a concentrated formulation of butoxydim, a Group 1 post-emergent herbicide for the control of annual grasses in grain legumes, legume pastures, cotton and sunflowers. Apply Encode in a tank-mix with registered grass selective herbicides for improved annual grass control in broadleaf crops and pastures.

Key features

- Tank-mix with Platinum® Xtra 360 (clethodim) for improved efficacy on annual ryegrass in grain legume crops
- Flexibility with oil spray adjuvant choice (e.g. Supercharge* Elite or Hasten*) at 1 L/100 L water
- Tank-mix with a 'fop' herbicide (e.g. Firepower® 900, Leopard® 200 or Shogun®) for improved efficacy on brome grass and volunteer cereals
- Concentrated easy-to-disperse formulation
- Reduced handling, transport and storage

| Crop | Target Weed | Rate |
|---|---|------------------------------|
| Winter pulses, lucerne, white and subterranean clover and medic pastures | Annual ryegrass, barley grass, wild oats | 40-90 g/ha |
| | As above, plus annual phalaris, barley grass, brome grass, vol. cereals and wild oats | 40-90 g/ha + 'fop' herbicide |
| Lucerne, mung beans, navy beans, peanuts, soybeans, cotton and sunflowers | Various annual grasses | 60 or 90 g/ha |

*Refer to the label for crop application timing prior to spraying. DO NOT apply at flowering stage of crops.

Product information

Active ingredient:
Butoxydim 500 g/kg

Mode of action:
Group 1 Herbicide

Formulation:
Water Dispersible Granule (WG)

Registered crops:
Grain legumes, legume pastures, cotton and sunflowers

Target weeds:
Annual grass weeds

Application information

Weed application timing:
2 leaf to 5 leaf (up to early tillering for many grasses)

Apply lower rates for grasses up to 4 leaves. Apply the higher rates for target grass weeds up to 3 tillers

Water volume:
Ground: 50-100L water/ha (minimum 80 L/ha where coarse droplets are used)
Aerial: 20-30L water/ha

Spray quality:
Medium to coarse droplets

Rainfastness:
30 minutes



HERBICIDE

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Platinum® Xtra 360 tank mixtures improve annual ryegrass control in winter pulses

Research conducted by The University of Adelaide confirmed that tank mixtures of butoxydim and clethodim can provide superior control of resistant annual ryegrass (ARG). The findings of the study demonstrated that within paddocks with a history of 'dim' applications, ARG sprayed with either butoxydim or clethodim (e.g. Platinum® Xtra 360) may not be effectively controlled due to a range of target-site mutations to 'dim' herbicides.

The researchers identified evidence of synergy between butoxydim and clethodim, where the tank-mix combination can, in some situations, control or suppress seed production of ARG populations with different dim target-site mutations.

When applying a tank mixture of Encode® and Platinum Xtra 360 for ARG in pulses, it is important to target younger, actively-growing weeds to maximise potential control. Application of this mixture should be undertaken in a sequence following the application of an effective pre-emergent herbicide such as Ultra® or propyzamide. Additionally, ADAMA recommends conducting regular herbicide resistance testing to understand the susceptibility of your weed populations before spraying.

On many ARG populations, tank-mixing Encode with Platinum Xtra 360 is a viable option for pulse growers who are looking to improve control and maintain greater yield potential.

References: Clethodim resistance in *Lolium rigidum* (Annual Ryegrass) and its management in broadleaf crops, Rupinder Kaur Saini, The University of Adelaide, December 2015.

Peter Boutsalis, The University of Adelaide & Plant Science Consulting.

Adjuvant

Always apply with an oil spray adjuvant (Supercharge* Elite or Hasten*) at 1 L/100 L water. For aerial application apply oil spray adjuvant at a rate of 1 L/ha.

Withholding periods

Harvest: NOT REQUIRED WHEN USED AS DIRECTED.

Grazing: Canola, chickpeas, clover, faba beans, field peas, lentils, linseed, lucerne, lupins, medics, mung beans, navy beans, peanuts, soybeans, sunflowers, vetches: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION.

Cotton: DO NOT GRAZE OR CUT FOR STOCKFEED. DO NOT FEED COTTON TRASH TO LIVESTOCK.

Annual ryegrass efficacy

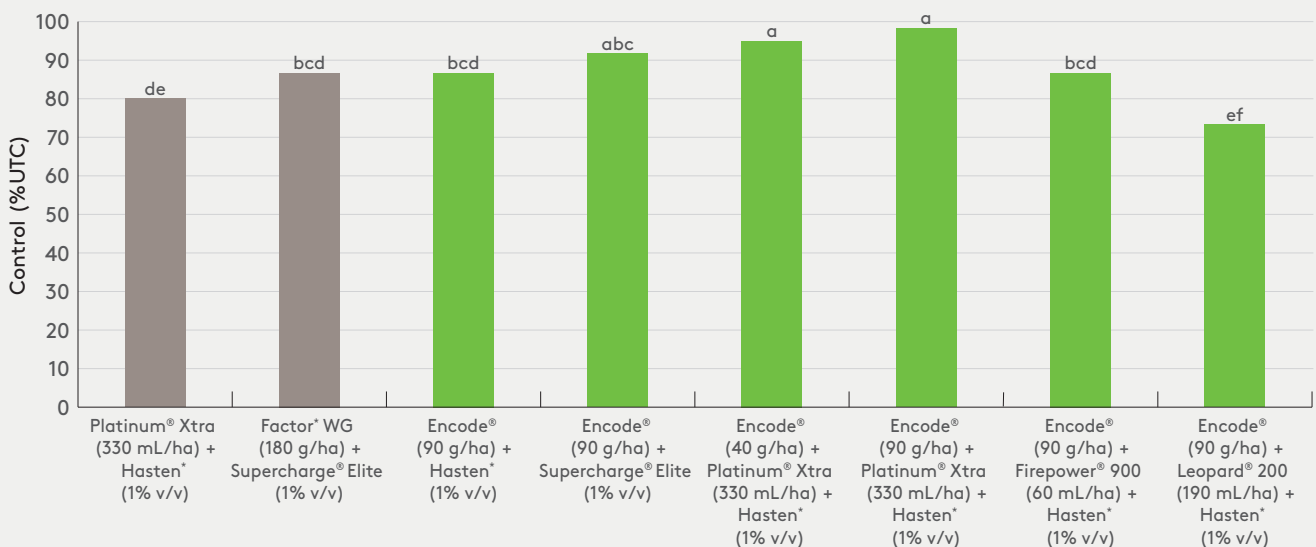


Figure 1: Annual ryegrass control in lentils cv. Hallmark (33 DAA) (Roseworthy, SA, 2021, Trial number AD-AU-21-H05-3b).



Scan here for more information

Refer to label for specific application recommendations.

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Always read the complete product label appearing on the container before opening or using products. ADA24355



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