

TITAN VITESSA HERBICIDE

TITAN Vitessa Herbicide is a post-emergent selective herbicide containing Bromoxynil (210 g/L) and Pyrasulfotole (37.5 g/L) with the crop safener Mefenpyr-diethyl.

This combination is the cornerstone of wild radish, and other brassica weed control, while also providing control or suppression of a broad spectrum of other broadleaf weeds, including capeweed, fumitory and volunteer pulses in wheat, barley, triticale and cereal rye.

WHAT MAKES TITAN VITESSA UNIQUE?

TITAN VITESSA was developed in Australia, with replicated trials across Australia's cropping landscape, demonstrating bioequivalence to industry standards, as well as crop safety. TITAN VITESSA provides exceptional control of a range of broadleaf weeds, including those resistant to other chemistries, from 2-leaf (Z12) to first node (Z31) in wheat, barley, triticale and cereal rye. TITAN VITESSA provides a truly flexible option for growers and is fast-acting, with bleaching evident within 3-7 days.

KEY FEATURES

- ✓ Excellent wild radish and other brassica weed control in wheat, barley, triticale and cereal rye
- ✓ Control weeds resistant to Group 2 (B), 12 (F1) and 4 (I) herbicides
- ✓ Gives rapid control of weeds in a range of tough environmental conditions
- ✓ Broad spectrum control of hard-to-kill broadleaf weeds
- ✓ Rainfast in 2 hours
- ✓ Australian developed formulation

AT A GLANCE

USE PATTERNS:

Early post-emergent in cereals – crop stage Z12 to Z31

FORMULATION TYPE:

Emulsifier Concentrate (EC)

ACTIVE INGREDIENTS:

210 g/L of bromoxynil and 37.5 g/L of pyrasulfotole

APPLICATION RATE:

Dependant on weed species, weed size and coverage

HERBICIDE MOA GROUP:

Group 6 + Group 27

ADJUVANT:

A recommended adjuvant must be used in conjunction with TITAN VITESSA Herbicide or TITAN VITESSA Herbicide mixtures when tank-mixed with other products. Recommended adjuvants are:

- TITAN Duelling Spray Adjuvant at 1% v/v
- TITAN Paraffinic Spraying Oil at 0.5% v/v

The use of TITAN Wetter 1000 Wetting Agent or ammonium sulphate may result in reduced weed control from TITAN VITESSA Herbicide. Consult TITAN AG Pty Ltd for information on other Adjuvants/Surfactants/Wetting Agents.

WEED SPECTRUM

***SEE PRODUCT LABEL FOR SPECIFIC SITUATIONS:**

Wild radish, wild turnip, capeweed, doublegee, wireweed, bindweed, bifora, volunteer canola and pulse crops and others.



EXCLUSIVELY AVAILABLE FROM YOUR LOCAL **Elders** BRANCH

TITANAG.COM.AU



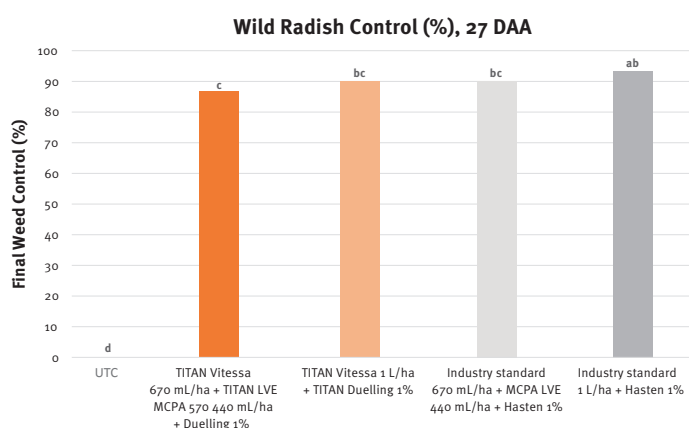
INDEPEDENT TRIAL DATA

BARLEY, HIGH PRESSURE

A trial in South Tammin, WA, demonstrated bioequivalence of TITAN VITESSA compared with the industry standard for post-emergent control of wild radish in barley.

The site was characterised by deep sandy duplex soil, and conditions were dry prior to the trial commencing. Weed populations were moderate to high at 50 plants/m², with many plants at the 6-leaf stage at application. The trial was run as a randomised complete block design and managed by SLR Field Research.

Across all assessment timings (8, 12 and 27 days after application), TITAN VITESSA performed equivalent to the industry standard. Final wild radish control ranged from approx. 87% at the low rate, to over 90% at the 1 L/ha label rate, with no statistically significant differences between products at equivalent rates. Complete control was not achieved in high-density patches due to shading. No crop phytotoxicity or barley safety concerns were observed, even at the double label rate of 2 L/ha, for all treatments.



Titan Trial No – TA2023H18

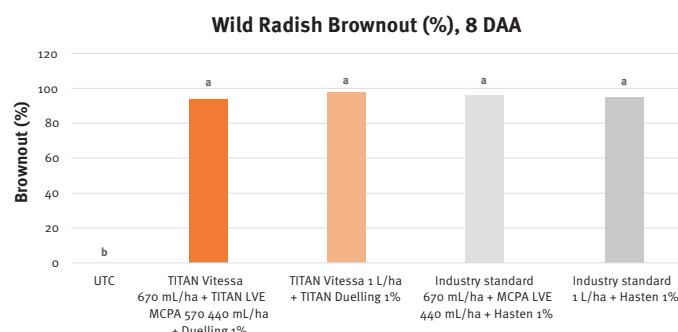
WHEAT, MODERATE PRESSURE

A trial near Beverley, WA, evaluated TITAN VITESSA bioequivalence and crop safety to the industry standard for wild radish control in wheat.

The site was characterised by deep sandy duplex soil, and conditions were favourable throughout the trial. Weed densities were moderate at 6 plants/m² and plants were predominantly at the 2-leaf stage at application, within label recommendations. The trial was run as a randomised complete block design and managed by SLR Field Research.

Rapid herbicide activity was observed, with all TITAN VITESSA and industry standard treatments achieving 94-98% brownout by 8 DAA. Complete control (100%) was achieved across all rates by 15 DAA and maintained to the final assessment.

Crop vigour was reduced at 8 DAA but there was no significant difference between treatments at the same rate. By 15 DAA any reduction in vigour was not significantly different to the untreated control (UTC).



Titan Trial No – TA2023H17

SUCCESSFUL APPLICATIONS

Check the label for critical comments based on usage pattern. Observe the restraints, no-spray zones, rates, application and general instructions.

- ✓ Apply to actively growing weeds under warm temperatures and good light conditions (apply at least one hour before sunset and avoid applications at night); results will be slower in cool or overcast conditions
- ✓ Ensure the spray will be fully dry on the weeds before any dew or rainfall is expected
- ✓ Apply with the recommended adjuvant – good coverage is essential
- ✓ Use a medium spray quality with a flat-fan nozzle
- ✓ Use a 50-150 L water/ha spray volume. Use the higher rate for advanced weeds (>4 leaf), heavy weed density or heavy crop density (leading to shading)
- ✓ Ensure the boom is set low (no higher than 50 cm)
- ✓ Optimum results are achieved when sprayed 4-6 weeks after sowing onto maximum 4 leaf weeds when cereals have usually 2 to 5 leaves (Z12-Z21)
- ✓ Use the higher rate on higher density populations
- ✓ Where there are dense weeds or crop stands, good control may not be achieved and a follow up clean-up spray may be required using a different mode of action group
- ✓ DO NOT use the 500 mL or 670 mL/ha rate alone where excellent coverage is not possible. Increasing the rate up to 1.0 L/ha, or on relevant weeds tank mixing with MCPA LVE, will improve control in most situations where - target weeds overlap each other, non-target weeds overlap the target weed, ground or standing stubble impedes excellent coverage or crop canopy impedes excellent coverage of all target weeds
- ✓ Application to soils with a pH greater than 8.4 (soil in water) has not been tested and is not recommended. Recropping symptoms are reduced on acid soils (pH < 6.5 soil in water, pH < 6.0 in CaCl₂).
- ✓ Observe the longer re-cropping interval of the tank-mix used
- ✓ DO NOT apply to crops undersown by legumes

EXCLUSIVELY AVAILABLE FROM YOUR LOCAL **Elders** BRANCH

TITANAG.COM.AU



SUCCESSFUL APPLICATIONS CONT.

TITAN VITESSA is a foliar herbicide with limited activity via the soil – it will not control weeds that emerge after spraying. Strong suppression, rather than full control may result; however, in most cases, this will allow the crop to develop a competitive advantage against the weeds.

TITAN VITESSA demonstrated good crop selectivity when used as directed, with transient crop effects possible under stress conditions. Resistance management guidelines highlighted the importance of integrated weed management and rotation of herbicide modes of action.

COMPATIBILITY

Compatibility trials have not been conducted using TITAN VITESSA Herbicide at 1 L/ha. Recommended compatibilities are TITAN VITESSA Herbicide at 500 mL or 670 mL/ha only. Observe the more rigorous of the crop and crop safety restrictions for the TITAN VITESSA Herbicide and companion herbicide labels when tank mixing. Increased crop effects may occur when mixing with other herbicides. Under normal growing conditions this should not result in any yield loss. For the latest information on mixing TITAN VITESSA Herbicide with other products, contact TITAN AG Pty Ltd.

Mix partner	Mix rate	TITAN VITESSA Herbicide Rate	Compatibility	Critical Comments
TITAN Clopyralid 750SG Herbicide	Label rates	Up to 670 mL/ha		–
TITAN LVE MCPA 570 Herbicide	to 500 mL/ha	Up to 670 mL/ha		–
TITAN Metsulfuron 600 WG Herbicide	5 g/ha	Up to 670 mL/ha		TITAN Metsulfuron 600 WG Herbicide may reduce the speed of control from TITAN VITESSA Herbicide. TITAN Metsulfuron 600 WG Herbicide may reduce the control of Bifora from TITAN VITESSA Herbicide.

ANNUAL RYEGRASS

Mix partner	Mix rate	TITAN VITESSA Herbicide Rate	Compatibility	Critical Comments
Atlantis OD	330 mL/ha	Up to 670 mL/ha		–
TITAN Pinoxaden 100EC Herbicide	Label rates for mixtures	Up to 670 mL/ha		–

WILD OATS

Mix partner	Mix rate	TITAN VITESSA Herbicide Rate	Compatibility	Critical Comments
TITAN Tralkoxydim 400 WG Herbicide	Label rates	Up to 670 mL/ha		Constant agitation required, on standing a sediment will form.
Atlantis OD	330 mL/ha	Up to 670 mL/ha		–
TITAN Pinoxaden 100EC Herbicide	Label rates for mixtures	Up to 670 mL/ha		–
TITAN Clodinafop 240 EC Herbicide	85 mL/ha	Up to 670 mL/ha		Insufficient data available at lower TITAN Clodinafop 240 EC Herbicide rates. Contact TITAN AG Pty Ltd for further information.

BROME GRASS

Mix partner	Mix rate	TITAN VITESSA Herbicide Rate	Compatibility	Critical Comments
Atlantis OD Up to	Label rates	500 mL/ha		–

 No loss of efficacy or adverse crop effects

 Some reduction in efficacy or the speed of action may occur

 Not compatible, efficacy reductions or adverse crop effects may occur

EXCLUSIVELY AVAILABLE FROM YOUR LOCAL  BRANCH

TITANAG.COM.AU



COMPATIBILITY CONT.

INCOMPATIBLE PRODUCTS

Products that are NOT compatible with TITAN VITESSA Herbicide must be applied separately. In this situation, it is recommended to apply TITAN VITESSA Herbicide first and then allow at least 10 days between its application and application of the incompatible product.

TRACE ELEMENTS

Reduced efficacy from TITAN VITESSA Herbicide will occur when mixed with trace elements. It is recommended to apply TITAN VITESSA Herbicide first and then allow at least 10 days between its application and application of any trace element.

Physically compatible products:

The following products have been tested for their physical compatibility only with TITAN VITESSA Herbicide (laboratory jar test). In field testing has not been conducted to determine if there are adverse effects on the target crop or adverse effects on the efficacy of the

products that are mixed. It is recommended that a small test area is treated before application to the entire crop.

The name of the product is listed followed by an appropriate mix rate for that product with up to 670mL/ha TITAN VITESSA Herbicide:

Hussar OD (100 mL/ha, see Note 1), TITAN Dimethoate 400 Systemic Insecticide (85 mL/ha), TITAN Tebuconazole 430 SC Fungicide (label rates), TITAN Azoxystrobin Extra Fungicide (up to 800 mL/ha, see Note 2).

Note 1 – Constant agitation required, on standing a sediment will form.

Note 2 – Constant agitation required, on standing irreversible settlement will occur.

WETTING AGENT/ADJUVANT RECOMMENDATION WITH COMPATIBLE PRODUCTS

TITAN VITESSA Herbicide mix-partner	Recommended surfactant/adjutant	Critical comments
Atlantis OD	TITAN Duelling Spray Adjuvant 1% v/v	DO NOT use a non-ionic surfactant, eg. TITAN Wetter 1000 Wetting Agent when TITAN VITESSA Herbicide is applied alone or with any other product as reduced efficacy or speed of kill may result. DO NOT use ammonium sulphate as the adjuvant for TITAN VITESSA Herbicide.
TITAN Pinoxaden 100 EC Herbicide	TITAN Duelling Spray Adjuvant 0.5% v/v	
Hussar OD	TITAN Duelling Spray Adjuvant 1% v/v	
TITAN Clodinafop 240 EC Herbicide	TITAN Duelling Spray Adjuvant 0.5% v/v or TITAN Paraffinic Spray Oil 0.5% v/v	

For advice on the compatibility of other products, and the most up-to-date information relating to the compatibility and crop safety of pesticide tank mixtures, visit our website at www.titanag.com.au

As formulations of other manufacturers' products are beyond the control of TITAN AG Pty Ltd and water quality varies with location, all mixtures should be tested prior to mixing commercial quantities.



EXCLUSIVELY AVAILABLE FROM YOUR LOCAL  BRANCH

TITANAG.COM.AU

