

TITAN SUDU HERBICIDE

TITAN SUDU Herbicide is a post-emergent selective herbicide containing MCPA (125 g/L) and Pyrasulfotole (25 g/L) with the crop safener Mefenpyr-diethyl.

TITAN SUDU provides exceptional control of wild radish, fumitory and many other hard-to-control broadleaf weeds and volunteer pulses in wheat, barley, oats, triticale and cereal rye.

WHAT MAKES TITAN SUDU UNIQUE?

TITAN SUDU has been developed in Australia, with replicated trials across Australia's cropping landscape demonstrating, bioequivalence to industry standards, as well as crop safety. TITAN SUDU is a high quality formulation providing robust control of wild radish and other hard-to-control weeds, including resistant populations, even in high pressure populations and with more advanced weeds.

KEY FEATURES

- ✓ Exceptional control of even advanced weeds (up to 8-leaf for some species) and in high pressure situations
- ✓ Wide application window of 3-leaf (Z13) to first node (Z31) for most crops; 5-leaf (Z15) to first node for barley
- ✓ Controls Group 2, 12 and 5 resistant wild radish
- ✓ Excellent compatibility
- ✓ Proven crop safety, backed by replicated trials
- ✓ Australian developed formulation
- ✓ Group 4 and Group 27 Mode of Action

AT A GLANCE

USE PATTERNS:	Post-emergent in cereals – crop stage Z13 to Z31 (or Z15 to Z31 in barley)
FORMULATION TYPE:	Emulsifiable concentrate (EC)
ACTIVE INGREDIENTS:	125 g/L MCPA as the 2-Ethylhexyl-ester + 25 g/L Pyrasulfotole
APPLICATION RATE:	Dependent on usage situation, weed species and pressure; 1-2 L/ha
HERBICIDE MOA GROUP:	Group 4 + Group 27
ADJUVANT:	• Spray grade liquid ammonium sulphate at 500 g active ingredient/ha; or • TITAN Duelling Spray Adjuvant (0.5 to 1% v/v); or • TITAN Paraffinic Oil 471 Adjuvant at 0.75% v/v; or • TITAN Paraffinic Spray Oil at 0.5% v/v

The use of TITAN Duelling Spray Adjuvant at 0.5% v/v may reduce speed of control compared to TITAN Duelling Spray Adjuvant at 1% v/v. Consult TITAN Ag Pty Ltd for information on other adjuvants.

WEED SPECTRUM

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

Controls wild radish including control of Group 2, 12 and 5 resistant populations; controls or suppresses various other broadleaf weeds.



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INDEPENDENT TRIAL DATA

WHEAT, VIC, HIGH PRESSURE

A wheat trial in Elmore, Vic, demonstrated bioequivalence and crop safety of TITAN SUDU to industry standards for post-emergent control of wild radish.

Rockstar wheat was direct drilled into a paddock with canola stubble from a previous crop with an IBS treatment of TITAN Glyphosate 450 and TITAN Trifluralin 480. Trial treatments were applied at tillering (Z13-21 wheat) using a flat fan nozzle and coarse spray quality.

Seasonal conditions were good for plant growth and development, with 261 mm rain from April to October and milder than average temperatures.

Wild radish ranged from cotyledon to 5-leaf growth stages at application and was a very high density (UTC mean of 200 plants/m² at application). A wild radish sample exhibited intermediate resistance to Group 12 and weak resistance to Group 4. The trials were conducted as a randomised complete block design by Mahony & Lonsdale.

Across all assessment timings (7, 13, 26 and 53 days after application), TITAN SUDU performed equivalent to the industry standard.

WHEAT, WA, LOW PRESSURE

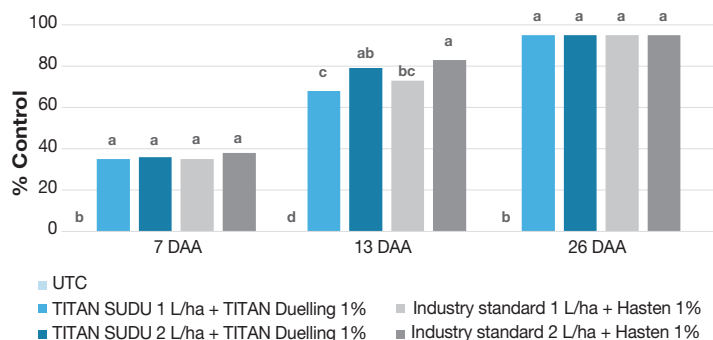
A wheat trial in Beverley, WA, demonstrated bioequivalence and crop safety of TITAN SUDU to industry standards for post-emergent control of wild radish.

Wheat was direct drilled into a paddock with wheat stubble from a previous crop. Trial treatments were applied at tillering (Z21) using a flat fan nozzle and coarse spray quality.

The site was on a deep sandy duplex soil. Seasonal conditions were good for plant growth and development. The paddock had a history of medium to high density of wild radish. At the time of the trial, wild radish ranged from 1- to 3-leaf growth stages. The trial was conducted as a randomised complete block design by SLR Field Research.

TITAN SUDU performed equivalent to the industry standard across all assessment timings (8, 15 and 31 days after application). Crop vigour was reduced across all treatments in the first two assessments, with full recovery by the final assessment 31 DAA.

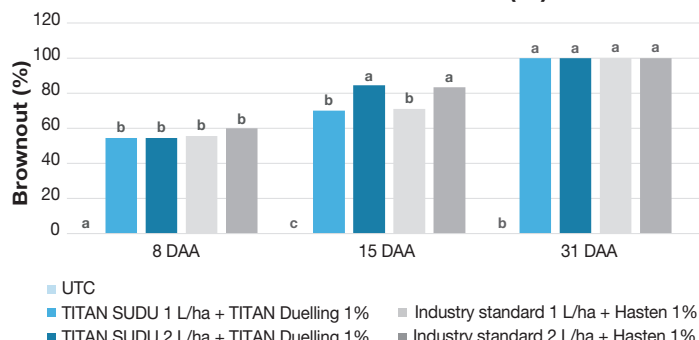
Wild Radish Control (%) in Wheat



Means followed by the same letter do not significantly differ (p=0.05, LSD)

Titan Trial No – TA2023H20

Wild Radish Brownout (%)



Means followed by the same letter do not significantly differ (p=0.05, LSD)

Titan Trial No – TA2023H19

SUCCESSFUL APPLICATIONS

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

- ✓ Use as part of an integrated weed management strategy
- ✓ Use the higher rate where resistant populations are confirmed or suspected and/or for high weed populations or when stubble load restricts good coverage of target weeds
- ✓ Apply in 50-100 L water/ha, increasing to 70-150 L water/ha where there is heavy weed density or crop stubble
- ✓ Apply with a medium spray quality
- ✓ For aerial application, apply with a minimum of 30 L water/ha
- ✓ Target young weeds that are actively growing
- ✓ Always apply with liquid ammonium sulfate or a recommended crop oil - do not use a non-ionic surfactant
- ✓ Do not apply if rain is expected within 2 hours of application

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COMPATIBILITY

BROADLEAF HERBICIDES

Mix partner	Mix rate	Notes
TITAN Metsulfuron 600 WG Herbicide	5g/ha	TITAN SUDU Herbicide at 1L/ha as a mix partner. Crop effects (discolouration and slowed rate of growth) may be increased when TITAN Metsulfuron 600 WG Herbicide is tank mixed with TITAN SUDU Herbicide at 1L/ha plus TITAN Duelling Spray Adjuvant at 1% v/v. Under normal growing conditions this should not result in any yield loss. Observe crop safety restrictions on the TITAN Metsulfuron 600 WG Herbicide label. DO NOT apply TITAN Metsulfuron 600 WG Herbicide plus TITAN SUDU Herbicide in Oats.
TITAN Clopyralid 750SG Herbicide	30 to 60g/ha	No loss of efficacy or adverse crop effects.

ANNUAL RYEGRASS HERBICIDES

Mix partner	Mix rate	Notes
Atlantis	Label rates	TITAN SUDU Herbicide at 1L/ha as a mix partner – Atlantis will provide suppression of Annual Ryegrass only.
TITAN Tralkoxydim 400WG Herbicide	Label rates	TITAN SUDU Herbicide at 1L/ha as a mix partner – some reduction in efficacy and the speed of action of these products may occur.
TITAN Pinoxaden 100EC Herbicide	300mL/ha plus TITAN Duelling Spray Adjuvant at 0.5% v/v	Physically compatible.

WILD OATS HERBICIDES

Mix partner	Mix rate	Notes
TITAN Tralkoxydim 400WG Herbicide	Label rates	TITAN SUDU Herbicide at 1.0L/ha as a mix partner – some reduction in efficacy and the speed of action of these products may occur.
Atlantis	Label rates	
TITAN Clodinafop 240 EC Herbicide	Label rates	
TITAN Pinoxaden 100EC Herbicide	300mL/ha plus TITAN Duelling Spray Adjuvant at 0.5% v/v	Physically compatible.

INSECTICIDES

Mix partner	Mix rate	Notes
TITAN Dimethoate 400 Systemic Insecticide	85mL/ha	This insecticide is physically compatible with TITAN SUDU Herbicide but has not been tested for biological compatibility.

FUNGICIDES

Mix partner	Mix rate	Notes
TITAN Azoxystrobin Extra Fungicide	Up to 800mL/ha	Note: With TITAN Azoxystrobin Extra Fungicide, constant agitation is required or irreversible settling will occur. All fungicides listed here are physically compatible with TITAN SUDU Herbicide but have not been tested for biological compatibility.
TITAN Epoxiconazole 125 SC Fungicide	500mL/ha	

ADJUVANT RECOMMENDATION WITH COMPATIBLE PRODUCTS

TITAN SUDU Herbicide mix-partner	Recommended Surfactant/ Adjuvant	Notes
TITAN Tralkoxydim 400WG Herbicide	TITAN Paraffin Oil 471 Adjuvant 0.75% v/v	DO NOT use TITAN Wetter 1000 Wetting Agent or a non-ionic wetting agent when TITAN SUDU Herbicide is applied alone or with any other product as reduced efficacy or speed of kill may result.
TITAN Metsulfuron 600 WG Herbicide	TITAN Duelling Spray Adjuvant 1% v/v	
Atlantis	TITAN Duelling Spray Adjuvant 1% v/v	
TITAN Clodinafop 240 EC Herbicide	TITAN Duelling Spray Adjuvant 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.

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