

CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

TITAN

SUDU HERBICIDE

ACTIVE CONSTITUENTS: 125g/L MCPA as the 2-ETHYLHEXYL ESTER
25g/L PYRASULFOTOLE
CROP SAFENER: 6.25g/L MEFENPYR-DIETHYL
SOLVENT: 297g/L LIQUID HYDROCARBON

GROUP 4, 27 HERBICIDE

For the post-emergent control of certain broadleaf weeds in Wheat, Barley, Oats, Cereal Rye and Triticale as specified in the Directions For Use table.

APVMA Approval No.: 94691/143189

Pack Size: 20L-1000L



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EC	Formulation Type Emulsifiable Concentrate
IN A TRANSPORT EMERGENCY • DIAL 000 • POLICE OR FIRE BRIGADE	
TRANSPORT AND HANDLING NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE FOR TRANSPORT BY ROAD AND RAIL	

DIRECTIONS FOR USE

Restraints:

DO NOT use if rainfall or irrigation is to occur within two hours of application.

DO NOT apply to frost affected weeds or if frosts are imminent. DO NOT apply without adjuvant/crop oil#.

DO NOT apply through a mister.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at www.apvma.gov.au/spraydrift

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone table below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

DO NOT apply by a boom sprayer unless the following requirements are met:

- Spray droplets not smaller than a MEDIUM spray droplet size category.
- Minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer Zones for Boom Sprayers') are observed.

Buffer Zones for Boom Sprayers			
Application rate	Mandatory downwind buffer zones		
	Natural aquatic areas	Vegetation areas	Livestock area
Up to maximum label rate	10m	10m	20m

DO NOT apply by aircraft unless the following requirements are met:

- Spray droplets not smaller than a MEDIUM spray droplet size category.
- For maximum release height above the target canopy of 3m or 25% of wingspan or 25% of rotor diameter, whichever is the greatest, minimum distances between the application site and downwind sensitive areas (see 'Mandatory downwind buffer zones' section of the following table titled 'Buffer Zones for Aircraft') are observed.

Buffer Zones for Aircraft				
Type of aircraft	Wind speed at time of application	Mandatory downwind buffer zones		
		Natural aquatic areas	Vegetation areas	Livestock areas
Fixed-wing and Helicopter	From 3 to 8 kilometres per hour	40m	300m	200m
	From 8 to 14 kilometres per hour	40m	500m	300m
	From 15 to 20 kilometres per hour	60m	700m	400m

CROP	CROP WEED	WEED STAGE	RATE per ha	CRITICAL COMMENTS
Wheat, Oats, Cereal Rye, Triticale – 3 leaf (Z13) to first node (Z31); Barley – 5 leaf (Z15) to first node (Z31) # See "Adjuvant/Crop Oil/ Surfactant/Wetting Agent" under General Instructions	Bedstraw	2 to 6 leaf	1.5 to 2L	Use the lower rate where good coverage of each weed can be attained.
	Capeweed	2 to 6 leaf	1L + 30g/ha TITAN Clopyralid 750SG Herbicide	–
	Canola, volunteer	2 to 8 leaf	1 to 2L	Use the lower rate where good coverage of each weed can be attained.
	Chickpea, volunteer	2 leaf to 5 node	1L + 40g/ha TITAN Clopyralid 750SG Herbicide	–
	Corn Gromwell	2 to 6 leaf	1 to 2L	Use the lower rate where good coverage of each weed can be attained.
	Deadnettle	2 to 6 leaf	1.5 to 2L	Use the lower rate where good coverage of each weed can be attained.
	Doublegee	2 to 4 leaf	1.5 to 2L	Suppression of Doublegee. Will suppress the growth of Doublegee but may not adequately reduce plant numbers. Suppression of Doublegee may require good growing conditions, good weed coverage at application then good crop competition following application. Use the lower rate where good coverage of each weed can be attained.
	Faba Bean, volunteer	2 leaf to 5 node	1L+ 30g/ha TITAN Clopyralid 750SG Herbicide	–
	Field Pea	2 to 5 leaf	1 to 2L	Under good conditions TITAN Sudu Herbicide at 1L/ha will provide satisfactory control of Field Pea. Use the lower rate where good coverage of each weed can be attained.
			1L + 40g/ha TITAN Clopyralid 750SG Herbicide	–
	Fumitory	2 to 6 leaf	1 to 2L	Use the lower rate where good coverage of each weed can be attained.
Indian Hedge Mustard	2 to 8 leaf	1 to 2L	Use the lower rate where good coverage of each weed can be attained.	
Lentil, volunteer	2 to 6 leaf	1L + 30 g/ha TITAN Clopyralid 750SG Herbicide	–	

CROP	CROP WEED	WEED STAGE	RATE per ha	CRITICAL COMMENTS	
Wheat, Oats, Cereal Rye, Triticale – 3 leaf (Z13) to first node (Z31); Barley – 5 leaf (Z15) to first node (Z31) # See “Adjuvant/Crop Oil/Surfactant/Wetting Agent” under General Instructions – <i>continued</i>	Lupin, volunteer	2 to 8 leaf	1 to 2L	Use the lower rate where good coverage of each weed can be attained.	
	Medic, volunteer	2 to 4 leaf	2L/ha or 1L + 30g/ha TITAN Clopyralid 750SG Herbicide	–	
	Paterson’s Curse	2 to 6 leaf	1 to 2L	Use the lower rate where good coverage of each weed can be attained.	
	Prickly Lettuce	2 to 6 leaf	1 to 2L	Use the lower rate where good coverage of each weed can be attained.	
	Sowthistle	2 to 8 leaf	1 to 2L	Use the lower rate where good coverage of each weed can be attained.	
	Sub-Clover	2 to 6 leaf	1L + 60g/ha TITAN Clopyralid 750SG Herbicide	–	
	Turnip Weed	2 to 6 leaf	1 to 2L	Use the lower rate where good coverage of each weed can be attained.	
	Vetch, volunteer	2 to 6 leaf	1L + 40g/ha TITAN Clopyralid 750SG Herbicide	–	
	Wild Radish	2 to 4 leaf	1 to 2L	DO NOT use the 1L/ha rate where excellent coverage is not possible. Where target weeds overlap each other, non-target weeds overlap the target weed, ground or standing stubble impedes excellent coverage or crop impedes excellent coverage of all target weeds; increasing the rate up to 2L/ha will improve control in most situations. Because high weed density may cause shading of weeds lower in the plant canopy or other factors may impede excellent herbicide leaf contact a follow up application of a suitable herbicide may be required to control plants remaining after an application of TITAN Sudu Herbicide.	
			Up to 6 leaf	1.5 to 2L	Use the lower rate where good coverage of each weed can be attained.
			Up to 8 leaf	2L	–
	Wild Turnip	2 to 8 leaf	1 to 2L	Use the lower rate where good coverage of each weed can be attained.	
	Wireweed	2 to 8 leaf	1 to 2L	Use the lower rate where good coverage of each weed can be attained.	
Yellow Burrweed	2 to 6 leaf	1.5 to 2L	Use the lower rate where good coverage of each weed can be attained.		

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION

WITHHOLDING PERIODS:

Harvest: NOT REQUIRED WHEN USED AS DIRECTED

Grazing/Stockfood:

Wheat, Barley, Oats, Cereal Rye, Triticale: DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 4 WEEKS AFTER APPLICATION

GENERAL INSTRUCTIONS

TITAN Sudu Herbicide is a selective phenoxy (Group 4) and pyrazole (which inhibits 4-HPPD – Group 27) herbicide. It is predominantly a foliar herbicide with limited activity via the soil. TITAN Sudu Herbicide will not reliably control weeds that emerge after spraying. Results are best under good growing conditions and application to weeds or crop under stress should be avoided. TITAN Sudu Herbicide will substantially reduce the growth of many weeds rather than give complete plant kill.

Refer to the Critical Comments in the Directions For Use table above and further information in the following General Instructions, which includes;

1. Adjuvant/Surfactant/Wetting Agent

2. Application

- a) Formulation type
- b) Mixing
- c) Spray equipment
- d) Spray clean up

3. Other factors influencing weed control

- a) Application time of day
- b) Effect of climate
- c) Weed density
- d) Weed emergence after application
- e) Weed stage

4. Compatibility

5. Crop safety

6. Crop rotation recommendations

It is important that all parts of the General Instructions are read in conjunction with the Directions For Use table.

1. Adjuvant/Crop Oil/Surfactant/Wetting Agent

Spray grade liquid ammonium sulfate or a recommended crop oil must be used in conjunction with TITAN Sudu Herbicide or TITAN Sudu Herbicide tank mixtures with other products in cereals.

Recommended adjuvants include spray grade liquid ammonium sulphate at 500 grams active ingredient/ha or the crop oil TITAN Duelling Spray Adjuvant (0.5 to 1% v/v), 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.

DO NOT use non-ionic surfactants eg. TITAN Wetter 1000 Wetting Agent unless tank mixing with Hussar® OD.

For mixtures with compatible products refer to the table Adjuvant Recommendation with Compatible Products in the Compatibility section (section 4) below.

2. Application

Ensure that complete and even spray coverage of all weeds is achieved. Please refer also to the SPRAY DRIFT RESTRAINTS and MANDATORY NO-SPRAY ZONES within the DIRECTIONS FOR USE section of this label.

- a) **Formulation type** – TITAN Sudu Herbicide is formulated as an emulsifiable concentrate (EC).

- b) **Mixing**

Half fill the spray tank with water, then with agitators in motion, add any



compatible granular products if required, then add the correct amount of TITAN Sudu Herbicide directly into the spray tank. Add other relevant compatible herbicides, then adjuvant or crop oil as recommended. Complete filling the tank with agitators in motion. Agitation must continue before and during spraying.

c) Spraying equipment

Ground sprayers – Standard boom sprayers only are recommended and must be fitted with bypass or mechanical agitation. It is recommended that 50 to 100L water/ha is applied. However, in the case of advanced weeds (greater than 4 leaf at application), heavy weed density (causing shading of weeds) or heavy crop canopy (causing shading of weeds), it is recommended that a spray volume in the range 70-150L water/ha is used as adequate coverage is critical to ensure control. The use of a nozzle that will deliver a MEDIUM spray quality is recommended.

Aerial application – Apply in a minimum of 30L water per hectare. Effective weed control will only be achieved where good coverage of each weed leaf surface is achieved, on actively growing weeds. Weed size needs to be considered in conjunction with weed density. If an aerial application of TITAN Sudu Herbicide is to be considered, then treat target weeds at the earliest possible growth stage. The rate of TITAN Sudu Herbicide should be increased (up to a maximum of 2.0L/ha) to improve reliability when applying with aircraft.

Use a recommended spray oil as the adjuvant rather than ammonium sulphate when applying by aircraft.

DO NOT spray too high above the ground.

Misters – DO NOT apply TITAN Sudu Herbicide through a mister.

d) Sprayer clean up

The sprayer must be thoroughly cleaned before being used again to spray crops other than winter cereals.

Warning: The rubber components present in some spraying units have shown they may be affected by exposure to undiluted TITAN Sudu Herbicide. To reduce the risk of the rubber components of the spraying unit being adversely affected by exposure to the product, it is recommended that the spray unit be thoroughly cleaned after each use.

Cleaning procedure: Ensure that the following operation is carried out in an area that is clear of waterways, desirable vegetation and tree roots, and preferably in an area where drainings can be contained. Fill the boom tank with water, rinse and repeat this procedure (ie. fill and rinse the tank twice) then remove and clean all filters (inline and nozzle) separately. A boom cleaner should be used in this process to provide an effective cleaning technique for TITAN Sudu Herbicide. This should be done immediately after spraying is finished to prevent dried residues adhering to the tank/lines/filters. When a tank mixture of TITAN Sudu Herbicide with a compatible product has been used, more rigorous cleaning of the sprayer may be required than when using TITAN Sudu Herbicide alone. Refer to the compatible product label for appropriate instructions in this event.

3. Other factors influencing weed control

a) Application time of day

Optimum performance of TITAN Sudu Herbicide occurs when it is applied in warmer temperatures with good light intensity. To maximise efficacy apply TITAN Sudu Herbicide during the day, at least 1 hour before sunset, particularly if followed by low overnight temperatures.

b) Effect of climate

Activity of TITAN Sudu Herbicide will be reduced if weeds are stressed. Optimum results will be obtained if good temperature, good light intensity and good soil moisture exists at application.

Rainfast period

DO NOT use if rainfall or irrigation is to occur within 2 hours of application.

Temperature

DO NOT apply to frost affected weeds or if frosts are imminent. The use of TITAN Sudu Herbicide at 2L/ha may provide better control of weeds during frosty periods.

c) Weed coverage

Reduced control will occur where target weeds overlap each other, non-target weeds overlap the target weed, ground or standing stubble impedes excellent coverage or crop impedes excellent coverage of all target weeds. Increasing the TITAN Sudu Herbicide rate up to 2L/ha will improve control in most situations. Because weed overlap may cause shading of weeds lower in the plant canopy or other factors may impede excellent herbicide leaf contact, a follow-up application of a suitable herbicide may be required to control plants remaining after an application of TITAN Sudu Herbicide.

d) Weed density

For reliable control good contact must be made with each plant. High weed density may cause shading of plants lower in the weed canopy. In dense weed or crop stands a follow up application of a suitable herbicide may be required to control remaining plants.

DO NOT use the minimum specified rate where excellent coverage of each weed through the canopy is not possible. For dense weed populations, increasing the rate to 2L/ha will improve control in most situations. Because high weed density may cause shading of weeds lower in the plant canopy a follow up application of a suitable herbicide may be required to control plants remaining after an application of TITAN Sudu Herbicide. Where crop or weed density is high, water volume should be increased as recommended in the Application section (section 2) above.

e) Weed emergence after application

TITAN Sudu Herbicide will not reliably control following germinations of weeds. A follow-up application of a suitable herbicide may be required to control remaining plants or plants that emerge after application. The use of TITAN Sudu Herbicide at 2L/ha will provide better control of weed emergence following application.

f) Weed stage

Apply when weeds are actively growing. In most situations the rate specified for each weed size will give satisfactory control. Under certain conditions such as:

- * high crop or weed density
- * later germinations
- * abnormal weed growth including early flowering – higher rates of TITAN Sudu Herbicide up to 2L/ha may be required.
- TITAN Sudu Herbicide may not effectively control:
 - * regrowth of suppressed weeds;
 - * transplanted weeds;
 - * weeds growing under stress from previous herbicide applications.

4. Compatibility

Observe the more rigorous of the recommended crops and crop safety restrictions for the TITAN Sudu Herbicide and companion herbicide labels when tank mixing. When mixing with other herbicides increased crop effects may occur. Under normal growing conditions this should not result in any yield loss due to TITAN Sudu Herbicide.

Mix partner	Mix rate	Critical Comments
Broadleaf Herbicides		
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		
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 Oat Herbicides		
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		
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		
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	Critical Comments
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, contact TITAN AG Pty Ltd.

5. Crop safety

TITAN Sudu Herbicide generally shows good crop selectivity when used as directed. The following will help minimise crop effects.

Selective crops

- DO NOT apply to crops undersown with Legumes or to broadleaf pastures.
- DO NOT apply to any crop other than Wheat, Barley, Oats, Cereal Rye or Triticale.
- DO NOT apply to hay crops unless boom overlap growth reduction is accepted.
- DO NOT apply TITAN Metsulfuron 600 WG Herbicide plus TITAN Sudu Herbicide in Oats.

Recommended growth stage

- TITAN Sudu Herbicide contains MCPA 2-ethylhexyl ester. Wheat, Oat, Triticale and Cereal Rye should be at minimum 3 leaf stage (Z13 growth stage), before application of TITAN Sudu Herbicide. Barley should be at minimum 5 leaf stage (Z15 growth stage), before application of TITAN Sudu Herbicide. Consult your local agronomist for the latest advice on varieties which require later growth stage applications to avoid the effects of MCPA.
- DO NOT apply later than Z31 (first node).

Agronomic and environmental factors

- Some crop yellowing and growth retardation may occur within 2 to 5 weeks of application. Where TITAN Sudu Herbicide up to 2L/ha is applied, any effects will be negligible and rapidly dissipate except in areas of boom overlap. In boom overlap areas, growth retardation may occasionally remain until spring. Grain yield will not be compromised.
- Growth retardation and discolouration may be increased if the crop is affected by root disease (eg. Cereal Cyst Nematode, Rhizoctonia, Take-all), nutritional stress, waterlogging, drought stress, excessively cold conditions or previous herbicide treatment.

- DO NOT apply to cereals that are physically damaged (eg. by hail, wind, insect attack).
- DO NOT apply to crops not actively growing (eg. due to cold and wet conditions or drought stress).
- 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 1.0L/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.

6. Crop rotation recommendations

Minimum re-cropping intervals apply for all crops following TITAN Sudu Herbicide application. Recropping intervals are dependent on the rate of product applied. Areas that receive double rates (boom overlaps) may show symptoms of damage in sensitive crops. This is generally restricted to discolouration (bleaching) of the crop but may also result in biomass reduction or reduced yields in some situations. For advice on crops not listed below, contact TITAN AG Pty Ltd.

Rainfall/irrigation – winter and summer recropping

For crops listed as requiring a minimum amount of rainfall or irrigation in combination with a set recropping interval; rainfall and irrigation totalling less than the stated amount in the tables below following use of TITAN Sudu Herbicide may result in an extended recropping interval; patchy rain, with extended dry periods may also result in an extended recropping intervals, even when rainfall exceeds the minimum stated. If in doubt, seek specialist advice.

Dry conditions or less than the recommended minimum rainfall and irrigation

Where less than the minimum rain has fallen between application and planting the next year, it is recommended to only plant a cereal.

pH

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).

Tank mixture with other herbicides

In the event that a tank mixture of TITAN Sudu Herbicide and another herbicide has been used, the longer recropping interval of the tank mix products should be observed for the crop in question.

Crop – winter sown	TITAN Sudu Herbicide rate applied	Minimum rainfall/ irrigation required	Recropping Interval
Wheat, Barley, Oats, Triticale	Up to 2L/ha	–	3 weeks
Canola, Clover*, Chickpea, Faba Bean*, Field Pea, Lentil*, Lucerne, Lupin, Vetch	1L/ha	250mm	9 months
Alkaline or neutral soils Canola, Chickpea, Field Pea, Lucerne, Lupin, Vetch	2L/ha**	250mm	
Acid soils (pH <6.5 in water, pH < 6.0 in CaCl ₂) Canola, Chickpea, Clover, Faba Bean, Field Pea, Lentil, Lucerne, Lupin, Medic, Vetch	2L/ha	250mm	
Alkaline soils Lentil, Medic Note: On soils with free limestone, do NOT use TITAN Sudu Herbicide above 1L/ha unless substantial biomass reduction (Medic) or discolouration (Lentil, Medic) is accepted in areas of boom overlap	2L/ha (see note in Crop column)	500mm	21 months

For winter recropping, transient biomass reduction or discolouration may occur where recropped following TITAN Sudu Herbicide application. When used as directed, grain yield is not compromised where transient biomass reduction or discolouration occurs.



* Where TITAN Sudu Herbicide at 1L/ha is applied on alkaline soils, recropped areas that receive double rates (boom overlaps) may show increased symptoms of damage in crops such as Clover, Faba Bean and Lentil. This is generally restricted to discolouration (bleaching) of the crop but may also result in biomass reduction or reduced yields in some situations.

** Where TITAN Sudu Herbicide at 2L/ha is applied on alkaline soils, recropped areas that receive double rates (boom overlaps) may show increased symptoms of damage in crops such as Canola, Field Pea, Lentil, Lupin, Medic and Vetch. This is generally restricted to discolouration (bleaching) of the crop but may also result in biomass reduction or reduced yields in some situations.

Crop – summer sown	TITAN Sudu Herbicide rate applied	Minimum rainfall/irrigation required	Recropping Interval
Maize, Sorghum	up to 2L/ha	–	8 weeks
Cotton, Soybean, Sunflower	up to 1L/ha	300mm	14 months
Mung Bean	up to 2L/ha***	300mm	14 months
Cotton, Soybean, Sunflower	up to 2L/ha***	500mm	14 months

For summer recropping, transient biomass reduction or discolouration may occur where recropped after TITAN Sudu Herbicide application. When used as directed, grain yield is not compromised where transient biomass reduction or discolouration occurs.

*** Where TITAN Sudu Herbicide at 2L/ha is applied, recropping areas that receive double rates (boom overlaps) may show increased symptoms of damage. This is generally restricted to discolouration (bleaching) of the crop but may also result in biomass reduction in some situations.

RESISTANT WEEDS WARNING

TITAN Sudu Herbicide contains members of the pyrazole (pyrasulfotole) and phenoxy (MCPA) groups of herbicides. TITAN Sudu Herbicide is a herbicide which inhibits 4-hydroxyphenylpyruvate dioxygenase (4-HPPD) and also acts by disruption of plant cell growth. For weed resistance management TITAN Sudu Herbicide is a Group 4 and Group 27 herbicide. Some naturally-occurring weed biotypes resistant to TITAN Sudu Herbicide and other Group 4 and Group 27 herbicides, may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by TITAN Sudu Herbicide or other Group 4 and Group 27 herbicides. Since occurrence of resistant weeds is difficult to detect prior to use, TITAN AG Pty Ltd accepts no liability for any losses that may result from the failure of TITAN Sudu Herbicide to control resistant weeds.



DO NOT rely exclusively on TITAN Sudu Herbicide for weed control. Use as part of an integrated weed management program involving herbicides with other modes of action and non-chemical methods of control. CropLife Australia resistance management strategies are available from your local agricultural chemical supplier. Refer to these strategies for details of how to manage the build up of resistant weeds on your farm.

PRECAUTIONS

Re-entry Period: DO NOT allow entry into treated areas until the spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Highly toxic to algae and aquatic plants. DO NOT contaminate streams, rivers or waterways with this product or used containers. DO NOT apply under weather conditions or from spraying equipment that could be expected to cause spray to drift onto wetlands, natural surface waters, neighbouring properties or other sensitive areas.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

For drumMUSTER containers: This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple-rinse container for disposal. Dispose of rinsate or any undiluted chemical according to state legislative requirements. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any *drumMUSTER* collection or similar container management program site. The cap should not be replaced, but may be taken separately.

For Refillable containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Corrosive, will damage eyes. May irritate the skin. Avoid contact with eyes and skin. If product in eyes, wash it out immediately with water. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length chemical resistant gloves and goggles. Wash hands after use.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131 126; New Zealand 0800 764 766. If in eyes, wash out immediately with water.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Sudu Herbicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit titanag.com.au

CONDITIONS OF SALE: TITAN AG Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on TITAN AG's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of TITAN AG Pty Ltd has any authority to add to or alter these conditions.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Harmful if inhaled. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects. Precautionary Statements: Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves / eye protection / face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Specific treatment (see on this label). Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Collect spillage. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

