

POISON

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

TITAN

TRICLOPYR 600

HERBICIDE

ACTIVE CONSTITUENT: 600 g/L TRICLOPYR present as the BUTOXYETHYL ESTER

GROUP **4** HERBICIDE

For the control of various woody and broadleaf weeds as per Directions For Use table.

APVMA Approval No.: 58348/58146

Pack Size: 5L; 10L; 20L; 100L; 110L; 200L; 1000L



TITAN AG Pty Ltd | ABN 57 122 081 574
15/16 Princes Street, Newport NSW 2106
Tel (02) 9999 6655 | titanag.com.au

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 apply to weeds which may be stressed (not actively growing) due to prolonged periods of extreme cold, moisture stress (water logged or drought affected), poor nutrition, presence of disease, or previous herbicide treatment as reduced levels of control may result.
DO NOT spray if rain is likely within one hour or if foliage is wet from rain or dew. However, when tank mixed with TITAN Glyphosate 450 Herbicide, this time may extend. Rainfastness of the Titan glyphosate product should be checked.
DO NOT burn off, cut or clear Blackberry or other woody weeds for six months after spraying.

APPLICATION METHODS

See **GENERAL INSTRUCTIONS – APPLICATION** section for application method details.

1. WOODY WEEDS SITUATIONS: AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS, PASTURES AND RIGHTS-OF-WAY				
A: High Volume Spraying				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/100L WATER	CRITICAL COMMENTS
African Boxthorn	Less than 2m tall	TAS only	170mL	
Angophora and Banksia regrowth	1-2m tall	ALL STATES	400 or 560mL	Use the higher rate on larger regrowth. Ensure the weed has dense foliage.
Blackberry	Active growth during late spring to early autumn		170mL	Where herbicides other than Group 4 herbicides have been used, allow two seasons regrowth to occur before spraying with TITAN Triclopyr 600 Herbicide. Any subsequent regrowth and seedlings should be sprayed after hardening off.
In association with: St John's Wort	During flowering (Nov-Jan)	NSW, ACT, VIC, TAS only		Apply as a thorough foliage spray.
Brigalow	1-2m tall	QLD, NSW, ACT only		Use at least 1000L of water/ha.
English Broom	Spring to mid-summer prior to pod formation	ALL STATES		
Camphor Laurel	Seedlings up to 3m tall			
Capeweed	Rosette	TAS only	80mL	
Common Prickly Pear	Active growth	ALL STATES	3L	
English Ivy	Active growth during late spring to late summer	VIC only	1L + 800mL TITAN Glyphosate 450 Herbicide (450g/L)	DO NOT treat ivy growing up trees or on other plants as death of the host may result. This mixture is not selective to grasses.
Eucalyptus	Seedlings and regrowth for small lignotubers, 1 to 2m tall	QLD, SA, WA, NT only	400mL	Add TITAN Wetter 1000 Wetting Agent at 250mL to 500mL/100L of water for best results.
		NSW, ACT, VIC, TAS only	560mL	
Fennel	Seedlings 1-2m tall	TAS only	170mL	Some regrowth may be expected the following season which can be sprayed after hardening off.
Green Cestrum		QLD, NSW, ACT, VIC only		
Fennel	Seedlings 1-2m tall	ALL STATES	160mL	
	2-3m tall		320mL	
Gorse	Spring to mid-summer	ALL STATES	170mL or 340mL	Add TITAN Wetter 1000 Wetting Agent at a rate of 125mL/100L water. Retreatment of regrowth may be necessary. Use higher water rate on older hardened off plants.
Horehound	Rosette	TAS only	170mL	
Saffron Thistle	Up to bud stage		80mL	
Tiger Pear	Active growth	ALL STATES	3L	
Wattles including Silver Wattle, Black Wattle	Seedlings 1-2m tall		160mL	
	2-3m tall		320mL	
B: Aerial Application				
Helicopter – NSW, SA, TAS, VIC, WA only				
Helicopter or fixed wing aircraft – QLD only				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE	CRITICAL COMMENTS
Blackberry	Late spring to autumn	ALL STATES	4.8L/ha	Avoid overspray/drift onto waterways.
C: Controlled Droplet Application (CDA)				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE	
Blackberry	Late spring to autumn	ALL STATES	170mL/L water	
D: Low Volume High Concentrate Application Techniques (Gas Powered Gun, Sprinkler Sprayer)				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE	
Blackberry	Late spring to autumn	ALL STATES	280mL/10L water	
Eucalypt seedlings	1 to 2m tall		400mL/10L water	

E: Basal Bark and Cut Stump Treatment				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/60L DIESEL	CRITICAL COMMENTS
African Boxthorn	Basal Bark: Plants up to 5cm basal diameter Cut Stump: Plants up to and in excess of basal bark sizes	ALL STATES	2L	
Australian Blackthorn			1L	
Broom		TAS only	1.25L	
Brown Salwood		ALL STATES	0.5L	
Bitter Bark		QLD, NSW, ACT only	1L	
Castor Oil, Chinee Apple		ALL STATES	1L	
Dawson Gum		QLD only	2L	
Eucalyptus (except Dawson Gum), False Sandalwood, Green Wattle, Lantana, Needlewood		ALL STATES	1L	
Olive		SA only	2L	
		NSW, ACT only	4L	
Paperbark Teatree, Rubbervine, Silver Wattle		ALL STATES	1L	
Sweet Briar			2L	
Yellow-wood		QLD only		
Camphor Laurel	Basal Bark: Plants up to 10cm basal diameter	QLD, NSW, ACT only	1L	Apply as a thorough foliar spray. Treat from early summer rains to end of April when regrowth is apparent. Treatment may be carried out at any time of the year. Apply as a thorough foliage spray.
Common Prickly Pear	Cut Stump: Plants up to and in excess of basal bark sizes	ALL STATES	0.8L	
Groundsel Bush (<i>Baccharis halimifolia</i>)			0.5L	
Prickly Acacia				
Privet			5L	
Smooth Tree Pear, Tiger Pear			0.8L	
Tree of Heaven			1L	
TABLE 2: WOODY WEED SITUATIONS: FENCELINES AND FIRE TRAILS only				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE	
Broadleaf Hopbush, Narrowleaf Hopbush, Turpentine Bush	Basal Bark: Plants up to 10cm basal diameter	NSW, ACT only	1L/60L Diesel	
TABLE 3: CROPPING/FALLOW SITUATIONS: FALLOW, STUBBLE, FIREBREAKS				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/100L WATER	CRITICAL COMMENTS
Camel (Afghan, Bitter) Melon (<i>Citrullus lanatus</i>)	Up to 20cm diameter	QLD, NSW, ACT, VIC, SA, WA only	120mL**	There are some strains of melon that are not controlled. Contact your Agronomist or Local Department of Agriculture for more information. ** Add TITAN Paraffinic Spraying Oil at 500mL/100L water. DO NOT use oils when tank mixing with Glyphosate herbicide. See COMPATIBILITY section. This mixture is not selective to grasses. When using TITAN Triclopyr 600 Herbicide and TITAN Glyphosate products by aerial application, observance of a buffer zone of 150 metres to protect native tree species is required.
	Runners from 20 to 40cm diameter		160mL**	
Prickly Paddy Melon (<i>Cucumis myriocarpus</i>)	Up to 20cm diameter		80mL**	
	Runners from 20 to 40cm diameter		160mL**	
TABLE 4: CROPPING/FALLOW SITUATIONS SORGHUM (Apply between 4 to 6 leaf stage, when secondary roots have developed)				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/100L WATER	CRITICAL COMMENTS
Prickly Paddy Melon	Up to 20cm diameter	QLD, NSW, ACT only	80mL	DO NOT add crop oils, as severe crop damage may occur. Fusing of Sorghum prop roots may be observed and this may be worse under stress (eg. root disease).

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

IN TASMANIA FOR BLACKBERRY: DO NOT treat bushes carrying mature or near mature fruit.

FOR NATIVE VEGETATION: Use of TITAN Triclopyr 600 Herbicide on native vegetation must be done in accordance with STATE and/or LOCAL legislation.

WITHHOLDING PERIODS:

Pasture: NOT REQUIRED WHEN USED AS DIRECTED

Sorghum: NOT REQUIRED WHEN USED AS DIRECTED

GENERAL INSTRUCTIONS

RESISTANT WEEDS WARNING

TITAN Triclopyr 600 Herbicide is a member of the Pyridines group of herbicides. TITAN Triclopyr 600 Herbicide has the disruptors of plant cell growth mode of action. For weed resistance management TITAN Triclopyr 600 Herbicide is a Group 4 Herbicide. Some naturally occurring weed biotypes resistant to TITAN Triclopyr 600 Herbicide and other disruptors of plant cell growth 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 will not be controlled by TITAN Triclopyr 600 Herbicide or other Group 4 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, TITAN AG Pty Ltd accepts no liability for any loss that may result from the failure of TITAN Triclopyr 600 Herbicide to control resistant weeds.

COMPATIBILITY

Fallow Situations:

TITAN Triclopyr 600 Herbicide is compatible with the following products: TITAN 2,4-D Amine or 2,4-D Ester products, TITAN Glyphosate products, TITAN Clopyralid products, TITAN Fluroxypyr 200 Herbicide, TITAN Chlorpyrifos Insecticide products

When mixing with glyphosate in fallow, refer to the Glyphosate label for use rate and recommended adjuvants.

DO NOT use Uptake Spraying Oil or D-C Trate Crop Oil.

Sorghum:

TITAN Triclopyr 600 Herbicide is compatible with:

Titan Atrazine (500g/L flowable product only)	Titan
Fluroxypyr 200 Herbicide	

MINIMUM RECROPPING PERIODS

Before using TITAN Triclopyr 600 Herbicide in tank mixes with other herbicides, check the plant back information on all product labels. The product with the longest plant back period will determine the time between spraying and planting.

Observe the following recropping periods for TITAN Triclopyr 600 Herbicide:

Wheat, Barley, Sorghum, Maize	7 days
Chickpeas, Soybeans, Sunflowers	7 days
Cotton	14 days

MIXING

Half fill the spray unit with water and add the required amount of TITAN Triclopyr 600 Herbicide. Add the remaining water with the agitator running. If required, add crop oils or wetters (surfactants) last. Maintain mechanical or by-pass agitation during spraying. Only mix sufficient solution for immediate daily use and avoid storing prepared solutions.

Basal Bark and Cut Stump Application

Quarter fill the spray unit or mixing container with diesel and add the required amount of TITAN Triclopyr 600 Herbicide. Add the remaining diesel and shake or agitate thoroughly to mix the contents. Periodically shake or agitate to stop product settling out. Only mix sufficient solution for immediate daily use and avoid storing.

APPLICATION INFORMATION

1. WOODY WEED SITUATIONS

Weeds need to be actively growing for herbicides to have optimum effect. Delay treatment until all regrowth has had time to grow to one metre high in situations which have been bulldozed, slashed, burnt, ploughed or areas having a previous chemical treatment.

A. High Volume Spraying

Thorough coverage of foliage and stems to the point of run-off is essential, however, avoid excess spraying which is wasteful of chemical.

Hand Gun: Apply the recommended mix to give full coverage of leaves and stems through a No. 6 to 8 tip at 700-1500kPa. A spray volume of 3000 to 4000L per hectare (30 to 40L/100m²) should be used on the weed infestation.

Knapsack: Used for smaller infestations, where penetration of the canopy is not essential. A spray volume of 3 to 4L/10m² of infested area should be used.

B. Aerial Application

Apply in 100 to 200L water/ha. Use a calibrated aircraft to apply in half overlap passes. Nozzle configurations should produce droplets of not less than 250 to 350 micron diameter (eg. D8/45). The potential for damage from drift can be greatly reduced by avoiding unsuitable spraying conditions and using spray pressure and nozzles to minimise the production of small droplets. DO NOT spray when wind exceeds 10km/hr and/or air temperature reaches 30°C.

C. Controlled Droplet Application (CDA)

Results similar to high volume spraying can be obtained using Micron Herbi* or similar equipment. Select a nozzle to give a flow rate of 2mL/sec and a sweeping action of approximately 1m/sec to ensure a droplet density of 20/cm². Use a marking agent, as recommended by the manufacturer, to check spray coverage. Also, consult directions provided with CDA unit.

D. Low Volume High Concentrate

Application Techniques: Good control will be achieved, similar to high volume application, where bush size enables good coverage of the bush. Use a marking agent, as recommended by the manufacturer, to check spray coverage.

Gas Powered Gun: Apply 50mL shots to obtain uniform coverage to 4 to 5m² of surface area of bush. This equates to 20 droplets/cm² of leaf surface.

Sprinkler Sprayer: This technique uses a micro sprinkler connected to a hollow fibre glass rod attached to a pressure knapsack sprayer. Use low pressures (50-200kPa) and apply with a slow sweeping action over the top of the plants, ensuring even coverage of the leaves.

E. Basal Bark and Cut Stump Treatment

Use TITAN Triclopyr 600 Herbicide mixed with diesel. Diesel may adversely affect the rubber seals in some spray equipment. To avoid this, fit spray equipment with Viton* seals and fittings.

Basal Bark Method: DO NOT apply to wet stems as this can repel the diesel mixture. Apply only with hand-directed equipment such as a pressure sprayer or paint brush. Spray equipment should be used at low pressures, up to 200kPa, to avoid excessive splashing or drift. Species with old, rough bark require more thorough wetting than smooth barked species. Liberally spray or paint the bark around the stem from ground level up to 30cm high, wetting thoroughly to the point of run-off (unless otherwise stated).

Cut Stump Method: Stems should be cut less than 15cm above the ground. Immediately apply TITAN Triclopyr 600 Herbicide/diesel mixture liberally to the freshly cut stump by spraying or painting the cut surface and sides of the stem.

2. CROPPING/FALLOW SITUATIONS

A. Boom Application

Application of TITAN Triclopyr 600 Herbicide in a minimum spray volume of 50L/ha is recommended. Flat fan nozzles are recommended, using pressures in the range of 200-300 kPa. Boom height must be set to ensure double overlap of nozzle patterns.

B. Aerial Application

DO NOT allow TITAN Triclopyr 600 Herbicide to physically drift onto desirable plants. Aircraft may be used to apply TITAN Triclopyr 600 Herbicide in fallow situations, when ground application equipment cannot be used due to prolonged wet conditions. DO NOT apply TITAN Triclopyr 600 Herbicide by aircraft when wind exceeds 60km/h and/or air temperature reaches 30°C. Droplets with an average diameter (Volume Mean Diameter) of 250-350 micron are recommended.

CLEANING SPRAY EQUIPMENT – WATER-BASED CLEANING

Rinsing: After using TITAN Triclopyr 600 Herbicide, empty the spray unit completely and drain the whole system. Thoroughly wash inside the spray unit using a pressure hose. Drain the spray unit and clean filters, pump, lines, hoses and nozzles. After cleaning the spray unit as above, quarter fill with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

Decontamination: Before spraying Cotton and other sensitive crops, with equipment that has been used to apply TITAN Triclopyr 600 Herbicide, see PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS section. Wash the tank and rinse the system as above. Then quarter fill the tank and add an alkaline detergent (eg. liquid SURF*, OMO*, OMOMATIC*, DRIVE*, at 500mL/100L of water or the powder equivalent at 500g/100L of water) and circulate throughout the system for at least 15 minutes. Drain the whole system. Remove filters and nozzles and clean them separately. Finally flush the system with clean water and allow to drain. DO NOT use chlorine based cleaners.

Rinse water should be discharged onto a designated disposal area or, if this is unavailable, onto unused land away from desirable plants and watercourses.

CLEANING SPRAY EQUIPMENT – DIESEL-BASED CLEANING

Rinsing: After using TITAN Triclopyr 600 Herbicide dissolved in diesel, empty the spray unit completely and drain the whole system. Thoroughly wash inside the spray unit using a pressure hose. Drain the spray unit and clean any filters in the tank, pump, lines, hoses and nozzles. Alternatively, use a degreaser such as Caltex Kwik-D-Grease* to remove traces of diesel from the sprayer. Rinse tank and spray through the nozzles with water to remove degreaser.



Decontamination: After rinsing as described above, quarter fill the tank with clean water and add an alkaline detergent (eg. liquid SURF*, OMO*, OMOMATIC*, DRIVE*, at 50mL/10L of water or the powder equivalent at 50g/10L of water). Shake or operate spray to circulate the washing solution throughout the sprayer and spray the solution through the nozzle. Rinse thoroughly with clean water to remove detergent. To clean brushes and container, spray liberally with degreaser. Hose off thoroughly with clean water and repeat using detergents (see above). DO NOT use this equipment for any other purpose.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Crops susceptible to TITAN Triclopyr 600 Herbicide include, but are not limited to: peas, lupins, lucerne, navy beans, soybeans and other legumes; cotton, fruit, hops, ornamentals, shade trees and *Pinus* spp., potatoes, safflower, sugar beet, sunflower, tobacco, tomatoes, vegetables and vines. TITAN Triclopyr 600 Herbicide is damaging to susceptible crops during both growing and dormant periods. Grasses are normally unaffected and establish quickly after treatment. DO NOT allow spray drift onto waterways, native vegetation or susceptible crops.

When using TITAN Triclopyr 600 Herbicide and TITAN Glyphosate products by aerial application in fallow situations, observance of a buffer zone of 150 metres to protect native tree species is required.

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

PROTECTION OF LIVESTOCK

Poisonous plants may become more palatable after spraying and stock should be kept away from these plants until they have died down.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

This product is highly toxic to fish and other aquatic organisms.

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

SMALL SPILL MANAGEMENT

Wear appropriate clothing and protective equipment whilst cleaning up spills (see SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, cat litter or clay granules to the spill. Sweep up contaminated material and contain in a refuse vessel for disposal. If spilled inside a building, wash contaminated surfaces to deactivate triclopyr with a dilute solution of bleach (sodium hypochlorite), prepared in accordance with the bleach label instructions. Dispose of the contaminated material in accordance with STORAGE AND DISPOSAL instructions below.

STORAGE AND DISPOSAL

Store in the closed original container in a dry, cool, well-ventilated area away from children, animals, food, feedstuffs, seed and fertilisers. 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

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

SAFETY DIRECTIONS

Poisonous if swallowed. May irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container and preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length rubber gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Triclopyr 600 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 swallowed. Causes skin irritation. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Precautionary Statements: Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). Collect spillage. Dispose of contents/container in accordance with local/regional/national/international regulations.

