POISON

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

TITAN

TRICLOPYR 755 EC

HERBICIDE

ACTIVE CONSTITUENT: 755g/L TRICLOPYR present as the BUTOXYETHYL ESTER

GROUP 4 HERBICIDE



For the control of a range of woody weeds and melons as specified in the Directions For Use table.

APVMA Approval No.: 88712/122067

Pack Size: 10L; 20L; 110L; 1000L

TITAN AG
CROP PROTECTION

TITAN AG Pty Ltd | ABN 57 122 081 574
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EC Formulation Type **Emulsifiable Concentrate**

IN A TRANSPORT EMERGENCY
• DIAL 000 • POLICE OR FIRE BRIGADE

9 **3082**
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains triclopyr, butoxyethanol ester)
PG III Hazchem •3Z

DIRECTIONS FOR USE

Restraints:
DO NOT apply using equipment carried on the back of the user.
DO NOT apply using handheld application methods.
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 and dew. However, when tank mixed with TITAN Glyphosate 450 Herbicide, this time extends to six hours.
DO NOT burn off, cut or clear blackberry or other woody weeds for six months after spraying.

For Native Vegetation: Use of TITAN Triclopyr 755 EC Herbicide on native vegetation must be done in accordance with STATE and/or LOCAL legislation.

In Tasmania For Blackberry: DO NOT treat bushes carrying mature or near mature fruit.

1. WOODY WEEDS SITUATIONS

Table A: High Volume Spraying See GENERAL INSTRUCTIONS - APPLICATION section for application method details.

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS, PASTURES AND RIGHTS-OF-WAY

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/100L WATER	CRITICAL COMMENTS
African Boxthorn	Less than 2m tall	TAS only	135mL	
Angophora and Banksia regrowth	1 to 2m tall	ALL STATES	320mL or 445mL	Use the higher rate on larger regrowth. Ensure the weed has dense foliage.
Blackberry	Active growth during late spring to early autumn		135mL	Where herbicides other than Group I herbicides have been used, allow two seasons regrowth to occur before spraying with TITAN Triclopyr 755 EC Herbicide. Any subsequent regrowth and seedlings should be sprayed after hardening off.
In association with: St John's Wort	During flowering (Nov-Jan)	NSW, VIC, TAS only		Apply as a thorough foliage spray.
Brigalow	1 to 2m tall	QLD, NSW only		Use at least 1000L of water/ha.
Brooms: English	Spring to mid summer prior to pod formation	ALL STATES		
Camphor Laurel	Seedlings up to 3m tall			
Capeweed only	Rosette	TAS only	64mL	
Common Prickly Pear	Active growth	ALL STATES	2.4L	
English Ivy	Active growth during late spring to late summer	VIC only	0.8L + 1L Titan Glyphosate 360	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 from small lignotubers, 1 to 2m tall	QLD, SA, WA, NT only	320mL	Add Decol* S35B Surfactant at 250 to 500mL/100L of water for best results.
		NSW, VIC, TAS only	445mL	
Fennel	1 to 2m tall	TAS only	135mL	
Green Cestrum		QLD, NSW, VIC only		Some regrowth may be expected the following season which can be sprayed after hardening off.
Groundsel Bush (*Baccharis halimifolia*)	Seedlings, 1 to 2m tall	ALL STATES	126mL	
	2 to 3m tall		255mL	
Gorse	Spring to mid summer		135mL or 270mL	Add a 100% concentrate non-ionic wetting agent at rate of 125mL/100L water. Retreatment of regrowth may be necessary. Use higher water rate on older hardened off plants.
Horehound	Rosette	TAS only	135mL	
Saffron Thistle	Up to bud stage		64mL	
Tiger Pear	Active growth	ALL STATES	2.4L	
Wattles, including Silver Wattle, Black Wattle	Seedlings, 1 to 2m tall		126mL	
	2 to 3m tall		255mL	

Table B: Aerial Application Helicopter
NSW, SA, VIC, TAS and WA only
Helicopter or fixed wing aircraft (QLD only).
See GENERAL INSTRUCTIONS – APPLICATION section for application method details.

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS, PASTURES AND RIGHTS-OF-WAY

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/ha	CRITICAL COMMENTS
Blackberry	Late spring to autumn	ALL STATES	3.8L	AVOID overspray/drift onto waterways.

Table C: Controlled Droplet Application (CDA) See GENERAL INSTRUCTIONS – APPLICATION section for application method details.

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS, PASTURES AND RIGHTS-OF-WAY

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/1L WATER	CRITICAL COMMENTS
Blackberry	Late spring to autumn	ALL STATES	135mL	

Table D: Low Volume High Concentrate Application Techniques (Gas Powered Gun, Sprinkler Sprayer)
See GENERAL INSTRUCTIONS - APPLICATION section for application method details.

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS, PASTURES AND RIGHTS-OF-WAY

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/10L WATER	CRITICAL COMMENTS
Blackberry	Late spring to autumn	ALL STATES	225mL	
Eucalypt seedlings	1 to 2m tall		320mL	

Table E: Basal Bark and Cut Stump Treatment See GENERAL INSTRUCTIONS – APPLICATION section for application method details.

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS, PASTURES AND RIGHTS-OF-WAY

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/60L DIESEL	CRITICAL COMMENTS
African Boxthorn	**Basal bark:** Plants up to 5cm basal diameter	ALL STATES	1.6L	
Australian Blackthorn			0.8L	
Broom		TAS only	1L	
Brown Salwood	**Cut stump:** Plants up to and in excess of basal bark sizes	ALL STATES	0.4L	
Bitter Bark		QLD, NSW only	0.8L	
Castor Oil, Chinee Apple		ALL STATES		
Dawson Gum		QLD only	1.6L	
Eucalypts (except Dawson Gum), False Sandalwood, Green Wattle, Lantana, Needlewood		ALL STATES	0.8L	
Olive		SA only	1.6L	
		NSW only	3.2L	
Paperbark, Teatree, Rubbervine, Silver Wattle		ALL STATES	0.8L	
Sweet Briar			1.6L	
Yellow-wood		QLD only		
Camphor Laurel	**Basal bark:** Plants up to 10cm basal diameter	QLD, NSW only	0.8L	
Common Prickly Pear		ALL STATES	0.64L	Apply as a thorough foliage spray.
Groundsel Bush (*Baccharis halimifolia*)			0.4L	Treat from early summer rains to end of April when regrowth is apparent.
Prickly Acacia	**Cut stump:** Plants up to and in excess of basal bark sizes			
Privet			4L	Treatment may be carried out at any time of the year.
Smooth Tree Pear, Tiger Pear			0.64L	Apply as a thorough foliage spray.
Tree of Heaven			0.8L	

FENCELINES AND FIRE TRAILS ONLY

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/60L DIESEL	CRITICAL COMMENTS
Broadleaf Hopbush, Narrowleaf Hopbush, Turpentine Bush	**Basal bark:** Plants up to 10cm basal diameter	NSW only	0.8L	

2. CROPPING/FALLOW SITUATIONS
See GENERAL INSTRUCTIONS – APPLICATION section for application method details.

FALLOW, STUBBLE, FIREBREAKS

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/ha	CRITICAL COMMENTS
Camel (Afghan, Bitter) Melon (*Citrullus lanatus*)	Up to 20cm diameter	QLD, NSW, VIC, SA, WA only	95mL^	There are some strains of melon that are not controlled. Contact your TITAN AG representative for more information. ^ Add a crop oil such as Uptake1 Spraying Oil at 500mL/100L water or D-C-Trate* Crop Oil at 1L/100L water. DO NOT use oils when tank mixing with TITAN Glyphosate 450. See COMPATIBILITY section. This mixture is not selective to grasses. When using TITAN Triclopyr 755 EC Herbicide and TITAN Glyphosate 450 by aerial application, observance of a buffer zone of 150 metres to protect native tree species is required.
	Runners from 20 to 40cm diameter		126mL^	
Prickly Paddy Melon (*Cucumis myriocarpus*)	Up to 20cm diameter		64mL^	
	Runners from 20 to 40cm diameter		126mL^	

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

WITHHOLDING PERIOD:
PASTURE: NOT REQUIRED WHEN USED AS DIRECTED.

TITAN AG CROP PROTECTION

GENERAL INSTRUCTIONS

COMPATIBILITY

Fallow Situations

TITAN Triclopyr 755 EC Herbicide is compatible with the following products: Titan Clopyralid 300 Herbicide, TITAN Clopyralid 750SG Herbicide, Fluroxypyr 333, TITAN Glyphosate 450, TITAN Glyphosate 540 K Salt Herbicide, TITAN Amine 625 Herbicide or TITAN LV 680, TITAN Chlorpyrifos 500 Termiticide and Insecticide.

When mixing with TITAN Glyphosate 450 in fallow, refer to the TITAN Glyphosate 450 label for use rate and adjuvants recommended.

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

PVC gloves are not recommended for TITAN Triclopyr 755 EC Herbicide. Therefore, when tank mixing with products that need to be handled with PVC gloves, workers should wear nitrile gloves.

MINIMUM RECROPPING PERIODS

- Before using TITAN Triclopyr 755 EC 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 755 EC Herbicide :

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

CROP SAFETY

TITAN Triclopyr 755 EC Herbicide has not been tested in forestry and pasture situations. Before application it is recommended to undertake a test application to a small area before applying on a broad scale basis.

MIXING

Half fill the spray unit with water and add the required amount of TITAN Triclopyr 755 EC Herbicide. Add the remaining water with the agitator running. If required, then add crop oils or wetters (surfactants). Maintain mechanical or by-pass agitation in the spray tank during spraying.

Only mix sufficient solution for immediate daily use and avoid storing.

Basal Bark and Cut Stump Application: Quarter fill the spray unit or mixing container with diesel and add the required amount of TITAN Triclopyr 755 EC 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

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 have a previous chemical treatment.

A. High Volume Spraying:

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

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 (e.g. 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.
- Human flagging is not authorised unless protected by engineering controls such as vehicles with cabs.

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 sweeping action of approximately 1m/sec to ensure a droplet density of 20/cm^2. Use a marking agent as recommended by the equipment manufacturers, to check spray coverage. Also, consult directions provided with CDA unit.

D. Low Volume High Concentrate

Application Technique: 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 equipment manufacturers, to check spray coverage.

- **Gas powered gun:** Apply 50mL shots to obtain uniform coverage to 4 to 5m^2 of surface area of bush. This equates to 20 droplets/cm^2 of leaf surface.
- **Sprinkler sprayer:** This technique involves using a micro sprinkler which is connected to a hollow fibre glass rod attached to a pressure knapsack sprayer. Use at low pressures (50 to 200kPa) and apply with a slow sweeping action over the top of the plants ensuring even coverage on the leaves.

E. Basal Bark and Cut Stump Treatment

Mix TITAN Triclopyr 755 EC Herbicide in diesel. The use of diesel as a herbicide carrier may affect the rubber seals in some sprayers. To avoid this, use sprayers which use Viton seals and fittings.

When using TITAN Triclopyr 755 EC Herbicide with diesel, nitrile gloves should be worn instead of rubber gloves.

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 a 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 755 EC Herbicide/diesel mixture liberally to the freshly cut stump by spray or painting the cut surface and sides of the stem.

2. CROPPING/FALLOW SITUATIONS

A. Boom Application

- Application of TITAN Triclopyr 755 EC Herbicide in a minimum spray volume of 50L/ha is recommended. Flat fan nozzles are recommended, using pressures in the range of 200-300kPa.

Boom height must be set to ensure double overlap of nozzle patterns.

B. Aerial Application

- DO NOT allow TITAN Triclopyr 755 EC Herbicide to physically drift onto desirable plants.
- Aircraft may be used to apply TITAN Triclopyr 755 EC Herbicide in fallow situations, when ground application equipment cannot be used due to prolonged wet conditions.
- A minimum spray volume of 35L/ha should be used with flat fan and CP nozzle configurations.
- DO NOT apply TITAN Triclopyr 755 EC Herbicide by aircraft when wind exceeds 10km/hr and/or air temperature reaches 30°C.
- Droplets with an average size (or Volume Mean Diameter) of 250 to 350 micron diameter are recommended.
- Human flagging is not authorised unless protected by engineering controls such as vehicles with cabs.

CLEANING SPRAY EQUIPMENT

WATER-BASED CLEANING

Rinsing:

- After using TITAN Triclopyr 755 EC 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 any filters in the tank, 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 755 EC 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 alkali detergent (e.g. liquid SURF, OMO, 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.

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

TITAN AG CROP PROTECTION

DIESEL-BASED CLEANING

Rinsing:

- After using TITAN Triclopyr 755 EC 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 any filters in the tank, pump, lines, hoses and nozzles.
- On completion of spraying, 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 the above, quarter fill the tank with clean water and add an alkali detergent (e.g. 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 well 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.

RESISTANT WEEDS WARNING

GROUP **4** HERBICIDE

TITAN Triclopyr 755 EC Herbicide is a member of the pyridines group of herbicides. The product has the disrupters of plant cell growth mode of action. For weed resistance management, the product is a Group 4 herbicide. Some naturally-occurring weed biotypes resistant to the product and other Group 4 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 this product 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 losses that may result from the failure of this product to control resistant weeds.

PRECAUTIONS

DO NOT enter treated areas until the spray has dried unless wearing overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

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.

Crops susceptible to TITAN Triclopyr 755 EC 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, sugarbeet, sunflower, tobacco, tomatoes, vegetables and vines.

TITAN Triclopyr 755 EC Herbicide is damaging to susceptible crops during both growing and dormant periods. Grasses are normally unaffected and establish quickly after treatment. DO NOT allow physical spray drift onto waterways, native vegetation and susceptible crops.

When using TITAN Triclopyr 755 EC Herbicide and TITAN Glyphosate 450 CT by aerial application in fallow situations, observance of a buffer zone of 150 metres to protect native tree species is required.

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.

STORAGE AND DISPOSAL

Store in closed original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT store near food, feedstuffs, fertilisers or seed. DO NOT re-use containers. Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals onsite. 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 refillable containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Harmful if swallowed. May irritate the nose and throat. Will irritate the eyes and skin. Repeat exposure may cause allergic disorders. Avoid contact with eyes and skin. When opening the container and preparing the product for use and using product by ground boom application, wear cotton overalls buttoned to neck and wrist (or equivalent clothing) and elbow length chemical resistant gloves and face shield or goggles. When opening the container and preparing the product for use by aerial application, wear cotton overalls buttoned to neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves and face shield or goggles and half piece respirator. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use wash gloves, goggles, respirator (and if rubber wash with detergent and warm water) and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766.

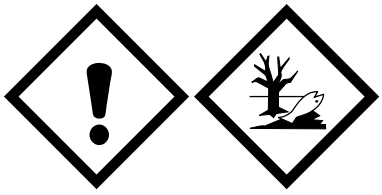
SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Triclopyr 755 EC 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. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects. Precautionary Statements: Wear protective gloves, protective clothing, eye protection and face protection. Avoid breathing mist/vapours/spray. Wash all exposed external body areas thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Contaminated work clothing should not be allowed out of the workplace. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage. IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell. Rinse mouth. Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

* Other trademarks



TITAN AG CROP PROTECTION