

POISON

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

Smart 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 specified in the Directions for Use Table.

IMPORTANT:
**READ THE ATTACHED BOOKLET BEFORE
USING THIS PRODUCT**

Batch Number:

Date of Manufacture:

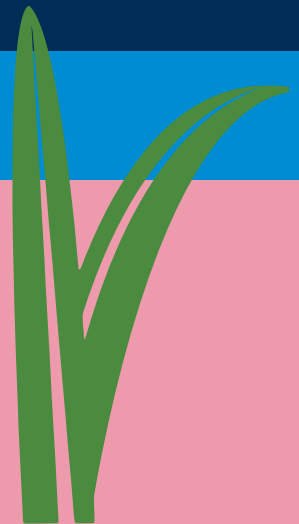
Scan QR Code to
access SDS
on mobile device



APVMA Approval Number: 62568/132514

Crop Smart Pty. Ltd
ACN 093 927 961
2409/4 Daydream Street, Warriewood NSW 2102
Tel: 1300 783 481 Fax: 1300 783 491

Crop Smart
better crop protection



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CONTENTS: 10, 20, 110, 1000 LITRES

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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 cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT store near food, foodstuffs, fertilisers or seed.

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.

This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. 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 point 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

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

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia: 13 11 26, New Zealand: 0800 764 766).

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, which is available from the supplier.

CONDITION OF SALE

Crop Smart Pty Ltd ("Crop Smart") shall not be liable for any loss, injury, damage or death whether consequential or otherwise whatsoever, or howsoever arising 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 conditions that the purchaser does not rely on Crop Smart's skill or judgement in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Crop Smart has any authority to alter these conditions.

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 apply if rain is likely within one hour or if foliage is wet from rain and dew. However, when tankmixed with Glyphosate 450, this time extends to 6 hours.

DO NOT burn off, cut or clear blackberry or other woody weeds for six months after spraying.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at 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 tables 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 aircraft unless the following requirements are met:

- Spray droplets not smaller than **MEDIUM to COARSE** 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 aircrafts

Situation	Mandatory downwind buffer zones
	Vegetation areas
Application with glyphosate	150 m

TABLE 1: WOODY WEED 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	

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/100L WATER	CRITICAL COMMENTS	
Angophora and Banksia regrowth	1 – 2m tall		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.	All States	170mL	Where herbicides other than Group 4 Herbicides have been used, allow two seasons regrowth to occur before spraying with SMART Triclopyr 600 Herbicide. Any subsequent re-growth 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	NSW, ACT QLD 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	Rosette	TAS only	80mL		
Common Prickly Pear	Active growth	All states	3L		
English Ivy	Active growth during late spring or late summer	VIC only	1L + 1L glyphosate (360g/L)		
Eucalyptus	Seedlings and regrowth from small lignotubers 1 – 2m tall	QLD, SA WA, NT only	400mL	Add 250mL to 500mL/100L water of a non-ionic surfactant for best results.	
		NSW, ACT TAS, VIC only	560mL		
Fennel		TAS only			
Green Cestrum	1 – 2m tall	NSW, ACT QLD, VIC only	170mL	Some regrowth may be expected the following season, which can be sprayed after hardening off.	
Groundsel Bush (<i>Baccharis halimifolia</i>)	Seedlings 1 – 2m tall	All States	160mL		
	2 – 3m tall		320mL		
Gorse	Spring to mid summer		170mL or 340mL	Add 125mL/100L of a 1000g/L non-ionic wetter. Retreatment of regrowth may be necessary. Use higher water rate on older hardened off plants.	

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/100L WATER	CRITICAL COMMENTS
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, ACT, SA, TAS, VIC and 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 (C.D.A.)

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		NSW ACT QLD only	1L		
Castor Oil Chinese Apple					All States
Dawson Gum		QLD only	2L		
Eucalypts (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. Cut Stump: Plants up to and in excess of basal bark sizes.	NSW ACT QLD only		1L
Common Prickly Pear			All States		0.8L
Groundsel Bush (<i>Baccharis halimifolia</i>)			0.5L	Treat from early summer rains to end of April when regrowth is apparent.	
Prickly Acacia					
Privet			5L	Treatment may be carried out at any time of the year.	
Smooth Tree Pear Tiger Pear			0.8L	Apply as a thorough foliage spray.	
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 (<i>Afghan, Bitter</i>) Melon (<i>Citrullus lanatus</i>)	Up to 20cm diameter	NSW ACT QLD SA VIC WA only	120mL**	There are some strains of melon that are not controlled. Contact your Agronomist or Local Department of Agriculture for more information.
	Runners from 20 to 40cm diameter		160mL**	
Prickly Paddy Melon (<i>Cucumis myriocarpus</i>)	Up to 20cm diameter		80mL**	**Add a crop oil such as Uptake* Spray Oil at 500mL/100L water or D-C-Trate* Crop Oil at 1L/100L water. DO NOT use oils when tank mixing with Glyphosate 450 Herbicide. See COMPATIBILITY section. This mixture is not selective to grasses.
	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	NSW ACT QLD 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). Should only be used with Fluroxypyr 200 Herbicide and Atrazine (500g/L flowable only) for increased weed spectrum.

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 SMART 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

GROUP 4 HERBICIDE

SMART Triclopyr 600 Herbicide is a member of the Pyridines group of herbicides. SMART Triclopyr 600 Herbicide has the disruptors of plant cell growth mode of action. For weed resistance management SMART Triclopyr 600 Herbicide is a Group 4 Herbicide. Some naturally occurring weed biotypes resistant to SMART Triclopyr 600 Herbicide 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 SMART Triclopyr 600 Herbicide or other Group 4 Herbicide. Since the occurrence of resistant weeds is difficult to detect prior to use, Crop Smart Pty Ltd. accepts no liability for any loss that may result from the failure of SMART Triclopyr 600 Herbicide to control resistant weeds.

COMPATIBILITY

Fallow Situations:

SMART Triclopyr 600 Herbicide is compatible with the following products:

- 2,4-D Amine or 2,4-D Ester
- Glyphosate 450 Herbicide
- Clopyralid 300 Herbicide
- Fluroxypyr 200 Herbicide
- Touchdown* Broadacre Herbicide
- Chlorpyrifos 500 Insecticide

When mixing with glyphosate in fallow, refer to the Glyphosate 450 label for use rate and recommended adjuvants. DO NOT use Uptake* Spray Oil D-C Trate*.

Sorghum:

SMART Triclopyr 600 Herbicide is compatible with:

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

MINIMUM RECROPPING PERIODS

Before using SMART 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 SMART 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 SMART 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 SMART 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 runoff 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 - 1500 kPa.

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 MEDIUM TO COARSE.

DO NOT spray when air temperature reaches 30°C. Human flagging is not authorised unless protected by engineering controls such as vehicles with enclosed cabs.

C. Controlled Droplet Application (C.D.A.)

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 C.D.A. 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 - 200 kPa) 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 SMART 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. When using Smart Triclopyr 600 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 paint brush. Spray equipment should be used at low pressures, up to 200 kPa, to avoid excessive splashing or drift. Species with old, rough bark require more thorough wetting than smooth barked species.

Liberal spray or paint the bark around the stem from ground level up to 30cm high, wetting thoroughly to the point of runoff (unless otherwise stated).

Cut Stump Method

Stems should be cut less than 15cm above the ground. Immediately apply SMART 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 SMART Triclopyr 600 Herbicide in a minimum spray volume of 50L/ha is recommended. Boom height must be set to ensure double overlap of nozzle patterns.

B. Aerial Application

DO NOT allow SMART Triclopyr 600 Herbicide to physically drift onto desirable plants.

Aircraft may be used to apply SMART Triclopyr 600 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. DO NOT apply SMART Triclopyr 600 Herbicide by aircraft when air temperature reaches 30°C. Droplets of MEDIUM TO COARSE are recommended. Human flagging is not authorised unless protected by engineering controls such as vehicles with enclosed cabs.

CLEANING SPRAY EQUIPMENT – WATER-BASED CLEANING

Rinsing

After using SMART 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 SMART 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.

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.

CLEANING SPRAY EQUIPMENT – DIESEL-BASED CLEANING

Rinsing

After using SMART 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 SMART 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.

SMART 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 SMART Triclopyr 600 Herbicide and Glyphosate 450 by aerial application in fallow situations, observance of a buffer zone of 150 meters to protect native tree species is required.

Drift Warning: 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.

* Registered Trademark

**IN AN EMERGENCY
DIAL 000
POLICE OR FIRE BRIGADE**

**EMERGENCY CONTACT CHEMWATCH
1800 951 288
AUSTRALIA WIDE, 24 HOURS**

GHS Statement

Do not get in eyes, on skin, or on clothing.

Wash contacted areas thoroughly after handling.

Keep away from heat, sparks, open flames and hot surfaces.

No smoking.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

In case of fire, use carbon dioxide, dry chemical, foam, water fog.

