

POISON

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



Sabakem
Triclopyr 600EC®
Herbicide

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

GROUP I HERBICIDE

For the control of various woody and broadleaf weeds as specified in the Directions for Use table.

IMPORTANT: READ THIS LEAFLET BEFORE OPENING OR USING THIS PRODUCT

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Leaflet_0816

APVMA Approval No: 69163/60110

GENERAL INSTRUCTIONS

RESISTANT WEEDS WARNING

Sabakem Triclopyr 600EC® Herbicide is a member of the Pyridines group of herbicides. Sabakem Triclopyr 600EC® Herbicide has the disruptors of plant cell growth of action. For weed resistance management, Sabakem Triclopyr 600EC® Herbicide is a Group I herbicide. Some naturally occurring weed biotypes resistant to Sabakem Triclopyr 600EC® Herbicide and other Group I 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. The resistant weeds will not be controlled by Sabakem Triclopyr 600EC® Herbicide or other Group I Herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Sabakem Pty Ltd accepts not liability for any losses that may result from the failure of Sabakem Sabakem Triclopyr 600EC® Herbicide to control resistant weeds.

COMPATIBILITY

Fallow Situations:

Sabakem Triclopyr 600EC® Herbicide is compatible with the following products: Lontrel¹ Herbicide, Starane¹ 200 Herbicide, Sabakem Glyphosate 450® Herbicide, Glyphosate 490 Herbicide, Touchdown¹ Broadacre, 2,4-D Amine 500 Herbicide or 2,4-D Ester 800 Herbicide, Sabakem Chlorpyrifos 500EC® Insecticide.

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

DO NOT use Uptake¹ Spraying Oil or D-C-Trate.

Sorghum: Sabakem Triclopyr 600EC® Herbicide is compatible with: Starane¹ 200 Herbicide and atrazine (500g/L flowable product only)

MINIMUM RECROPPING PERIODS

- Before using Sabakem Triclopyr 600EC® 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 Sabakem Triclopyr 600EC® 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 Sabakem Triclopyr 600EC® 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 Sabakem Triclopyr 600EC® 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 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.

Hand Gun: Apply the recommended mix to give full coverage of leaves and stems through a No.6 to 8 tip at 700 to 1500 kPa. A spray volume of 3000 to 4000L per hectare (30-40L/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 (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 10 km/hr and/or air temperature reaches 30°C. Human flagging is not authorised unless protected by engineering controls such as vehicles and 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 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 of 4 to 5m² of surface area of bush. This relates 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 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

Sabakem Triclopyr 600EC® Herbicide mixed with diesel. Diesel may adversely affect the rubber seals in some spray equipment. To avoid this, fit spray equipment with Viton¹ seals and fittings. When using Sabakem Triclopyr 600EC® Herbicide with diesel, nitrite 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 runoff (unless otherwise stated).

Cut Stump Method: Stems should be cut less than 15 cm above the ground. Immediately apply Sabakem Triclopyr 600EC® 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 Sabakem Triclopyr 600EC® 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 Sabakem Triclopyr 600EC® Herbicide to physically drift onto desirable plants. Aircraft may be used to apply Sabakem Triclopyr 600EC® Herbicide in fallow situations, when ground application equipment cannot be used due to prolonged wet conditions.

DO NOT apply Sabakem Triclopyr 600EC® Herbicide by aircraft when wind exceeds 60km/hr and/or air temperature reaches 30°C.

Droplets with an average diameter (Volume Mean Diameter) of 250-350 micron 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 Sabakem Triclopyr 600EC® 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 procedure twice.

Decontamination: Before spraying cotton and other sensitive crops, with equipment that has been used to apply Sabakem Triclopyr 600EC® 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 SURF¹, 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.

CLEANING SPRAY EQUIPMENT

DIESEL-BASED CLEANING

Rinsing: After using Sabakem Triclopyr 600EC® 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 Caltext† 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 alkali detergent (e.g. liquid SURF¹, OMO[†], OMOMATIC[†], DRIVE[†] at 50mL/10L of water or the powder equivalent at 50 g/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 Sabakem Triclopyr 600EC® 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.

Sabakem Triclopyr 600EC® 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 Sabakem Triclopyr 600EC® Herbicide and Glyphosate 450 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 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 surface to deactivate triclopyr with a dilute solution of bleach (sodium hypochlorite), prepared in accordance with bleach label instructions. Dispose of the contaminated material in accordance with STORAGE AND DISPOSAL instructions below.

STORAGE AND DISPOSAL

Store in closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple or preferably pressure 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 for appropriate disposal 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 (10L & 1000L): 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 the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, a washable hat and elbow length rubber gloves. Wash hands after use. After each day use wash gloves and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, which is available from Sabakem Pty Ltd.

CONDITIONS OF SALE: The use of this product is beyond the control of Sabakem Pty Ltd. No warranty is expressed or implied regarding the suitability or efficiency for any purpose for which it is used by the buyer. Sabakem Pty Ltd accepts no responsibility for any consequences resulting from the use of this product. Sabakem Pty Ltd will not be held liable for any loss, injury or damage arising from the sale, supply or use of this product, whether through negligence or otherwise. No responsibility will be accepted for any consequences whatsoever resulting from the use of this product.

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Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: May cause an allergic skin reaction. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.

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 and dew. However, when tank mixed with Sabakem Glyphosate 450CT® Herbicide, this time extends to 6 hours.
 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	All States	170mL	Where herbicides other than Group I herbicides have been used, allow two seasons regrowth to occur before spraying with Sabakem Triclopyr 600EC® 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	NSW, ACT, Qld only		Use at least 1000L of water per hectare.
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 to late summer	Vic only	1L + 1L glyphosate (360g/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 from small	Qld, SA, WA, NT only	400mL	Add Decol® S35B Surfactant at 250mL to 500mL/100L of water for best results.
	Lignotubers, 1-2m tall	NSW, ACT, Tas, Vic only	560mL	

A: High Volume Spraying (Continued)

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE / 100L WATER	CRITICAL COMMENTS
Fennel	1-2m tall	Tas only	170mL	
Green Cestrum		Qld, NSW, ACT, Vic only		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 a 1000g/L Wetter 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	Seedlings, 1-2m tall		160mL	
Black Wattle	2-3m tall		320mL	

B: AERIAL APPLICATION

Helicopter NSW, 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 over spray/drift onto waterways.

C: CONTROLLED DROPLET APPLICATION (C.D.A.)

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE / 1L WATER	CRITICAL COMMENTS
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 / 10L WATER	CRITICAL COMMENTS
Blackberry	Late spring to autumn	All States	280mL/10L water	
Eucalypt seedlings	1-2m 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	All States	2L	
Australian Blackthorn			1L	
Broom		Tas only	1.25L	
Brown Salwood		All States	0.5L	
Bitter Bark	Cut stump: Plants up to and in excess of basal bark sizes	NSW, ACT, Qld only	1L	
Castor Oil		All States		
Chinee Apple				
Dawson Gum		Qld only	2L	
Eucalypts (except Dawson Gum)		All States	1L	
False Sandalwood				
Green Wattle				
Lantana				
Needlewood				
Olive		SA only	2L	
	NSW, ACT only	4L		
Paperbark		All States	1L	
Teatree				
Rubbervine				
Silver Wattle				
Sweet Briar			2L	
Yellow-Wood		Qld only		
Camphor Laurel	Basal bark: Plants up to 10cm basal diameter	NSW, ACT, Qld only	1L	
Common Prickly Pear		All States	0.8L	Apply as a thorough foliage spray.
Groundsel Bush (<i>Baccharis halimifolia</i>)			0.5L	Treat from early summer rains to end of April when regrowth is apparent.
Prickly Acacia				
Privet	Cut stump: Plants up to and in excess of basal bark sizes		5L	Treatment may be carried out at any time of the year.
Smooth Tree Pear			0.8L	Apply as a thorough foliage spray.
Tiger Pear				
Tree of Heaven			1L	

TABLE 2: WOODY WEED SITUATIONS: 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, ACT only	1L	

TABLE 3. CROPPING/FALLOW SITUATIONS: FALLOW, STUBBLE, FIREBREAKS

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE / ha	CRITICAL COMMENTS
Camel (Afghan, Bitter) 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 Sabakem representative for more information.
	Runners from 20-40cm diameter		160mL **	** Add a crop oil such as Uptake [†] Spraying Oil at 500mL/100 L water or D-C-Trate [†] Crop Oil at 1L/100L water.
Prickly Paddy Melon (<i>Cucumis myriocarpus</i>)	Up to 20cm diameter		80mL **	DO NOT use oils when tank mixing with Glyphosate 450 Herbicide. See COMPATIBILITY section. This mixture is not selective to grasses.
	Runners from 20-40cm diameter		160mL **	When using Sabakem Triclopyr 600EC® Herbicide and Glyphosate 450 Herbicide by aerial application, observance of a buffer zone of 150 metres to protect native tree species is required.

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 / ha	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 (e.g. root disease). Should only be mixed with Sabakem Fluroxypr 200EC® 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 Sabakem Triclopyr 600EC® 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.