

POISON

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

Safari® 600EC Herbicide

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

GROUP I HERBICIDE

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



ADAMA
ESSENTIALS

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CONTENTS: 10 L, 20 L, 110 L, 1000 L

DIRECTIONS FOR USE

Restrains: 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 Wipe-Out® 450, this time extends to 6 hours.
DO NOT burn off, cut or clear blackberry or other woody weeds for six months after spraying.

1. WOODY WEED 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/100 L WATER	CRITICAL COMMENTS
African Boxthorn	Less than 2 m tall	Tas only	170 mL	-
Angophora, Banksia regrowth	1 to 2 m tall	All States	400 or 560 mL	Use the higher rate on larger regrowth. Ensure the weed has dense foliage.
Blackberry	Active growth during late Spring to early Autumn		170 mL	Where herbicides other than Group I herbicides have been used, allow two seasons regrowth to occur before spraying with SAFARI 600EC. 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 2 m tall	Qld, NSW only		Use at least 1000 L of water/ha.
Brooms: English	Spring to mid-Summer prior to pod formation	All States		-
Camphor Laurel	Seedlings up to 3 m tall			
Capeweed	Rosette	Tas only	80 mL	
Common Prickly Pear	Active growth	All States	3 L	

1. WOODY WEED SITUATIONS

Table A: High Volume Spraying – continued

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/100 L WATER	CRITICAL COMMENTS	
English Ivy	Active growth during late Spring to late Summer	Vic only	1 L + 1 L glyphosate (360 g/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 lignotubers, 1 to 2 m tall	Qld, SA, WA, NT only	400 mL	Add a 100% concentrate non-ionic surfactant (eg. Wetspray® 1000) at 100 mL/100 L of water for best results.	
		NSW, Vic, Tas only	560 mL		
Fennel	1 to 2 m tall	Tas only	170 mL	-	
Green Cestrum		Qld, NSW, 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 to 2 m tall	All States	160 mL	-	
	2 to 3 m tall		320 mL		
Gorse	Spring to mid Summer		170 mL or 340 mL		Add a 100% concentrate non-ionic wetting agent at rate of 125 mL/100 L water. Retreatment of regrowth may be necessary. Use higher water rate on older hardened off plants.
Horehound	Rosette		Tas only		170 mL
Saffron Thistle	Up to bud stage		80 mL		
Tiger Pear	Active growth	All States	3 L		
Wattles, including Silver Wattle, Black Wattle	Seedlings, 1 to 2 m tall		160 mL		
	2 to 3 m tall		320 mL		

Table B: Aerial Application

Helicopter NSW, Vic, Tas, SA, 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	4.8 L	Avoid overspray/drift onto waterways.

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

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/1 L WATER	CRITICAL COMMENTS
Blackberry	Late Spring to Autumn	All States	170 mL	-

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/10 L WATER	CRITICAL COMMENTS
Blackberry	Late Spring to Autumn	All States	280 mL	-
Eucalypt seedlings	1 to 2 m tall		400 mL	

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/60 L DIESEL	CRITICAL COMMENTS
African Boxthorn	Basal bark: Plants up to 5 cm basal diameter Cut stump: Plants up to and in excess of basal bark sizes	All States	2 L	-
Australian Blackthorn			1 L	
Broom		Tas only	1.25 L	
Brown Salwood		All States	0.5 L	
Bitter Bark		Qld, NSW only	1 L	
Castor Oil, Chinese Apple				
Dawson Gum		Qld only	2 L	
Eucalypts (except Dawson Gum), False Sandalwood, Green Wattle, Lantana, Needlewood		All States	1 L	
Olive		SA only	2 L	
		NSW only	4 L	
Paperbark Teatree, Rubbervine, Silver Wattle		All States	1 L	
Sweet Briar			2 L	
Yellow-wood		Qld only		
Camphor Laurel		Basal bark: Plants up to 10 cm basal diameter Cut stump: Plants up to and in excess of basal bark sizes	Qld, NSW only	
Common Prickly Pear	All States		0.8 L	Apply as a thorough foliage spray.
Groundsel Bush (<i>Baccharis halimifolia</i>)			0.5 L	Treat from early Summer rains to end of April when regrowth is apparent.
Prickly Acacia			-	
Privet			5 L	Treatment may be carried out at any time of the year.
Smooth Tree Pear, Tiger Pear			0.8 L	Apply as a thorough foliage spray.
Tree of Heaven			1 L	-

AGRICULTURAL (NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS, PASTURES AND RIGHTS-OF-WAY) FENCIBLES AND FIRE TRAILS only

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/60 L DIESEL	CRITICAL COMMENTS
Broadleaf Hopbush, Narrowleaf Hopbush, Turpentine Bush	Basal bark: Plants up to 10 cm basal diameter	NSW only	1 L	-

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 (<i>Citrullus lanatus</i>)	Up to 20 cm diameter	Qld, NSW, Vic, SA, WA only	120 mL ①	There are some strains of melon that are not controlled. Contact your Adama representative for more information. ① Add a crop oil such as Uptake* Spraying Oil at 500 mL/100 L water or D-C-Trate* Crop Oil at 1 L/100 L water.	
	Runners from 20 to 40 cm diameter		160 mL ①		
Prickly Paddy Melon (<i>Cucumis myriocarpus</i>)	Up to 20 cm diameter		80 mL ①		DO NOT use oils when tank mixing with Wipe-Out® 450 Herbicide. See Compatibility section. This mixture is not selective to grasses. When using SAFARI 600EC and Wipe-Out 450 by aerial application, observance of a buffer zone of 150 metres to protect native tree species is required.
	Runners from 20 to 40 cm diameter		160 mL ①		

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 20 cm diameter	Qld, NSW only	80 mL	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 Starane* 200 Herbicide and atrazine (500 g/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 SAFARI 600EC 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

SAFARI® 600EC Herbicide is a member of the pyridines group of herbicides. The product has the disruptors of plant cell growth mode of action. For weed resistance management, the product is a Group I herbicide.

GROUP I HERBICIDE

Some naturally-occurring weed biotypes resistant to the product 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. These resistant weeds will not be controlled by SAFARI 600EC or Group I herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Adama Australia Pty. Ltd. accepts no liability for any losses that may result from the failure of SAFARI 600EC to control resistant weeds. Strategies to minimise the risk of herbicide resistance are available. Contact your farm chemical supplier, consultant, local Department of Agriculture, or local Adama representative.

COMPATIBILITY

Fallow Situations

SAFARI 600EC is compatible with the following products: LV Ester 600 (2,4-D ester), Adama 2,4-D amine 625 (2,4-D amine), Zulu® 300 (2,4-D isopropylamine), Flagship® 200, glyphosate, Lontrel®, Starane® 200, Wipe-Out® 450, Wipe-Out® Plus, Victory® and Strike-Out® 500EC Insecticide. When mixing with Wipe-Out 450 or Wipe-Out Plus refer to the Wipe-Out label for use rate and adjuvants recommended.

DO NOT use Uptake* Spraying Oil or DC Trate* Crop Oil.

Sorghum

SAFARI 600EC is compatible with Flagship® 200, Starane® 200, Farmozine® 500 SC (atrazine flowable products only).

MINIMUM RE-CROPPING PERIODS

Before using SAFARI 600EC in tank mixes with other herbicides, check the plant-back information on all product labels. The time between spraying and planting will be determined by the product with the longest plant-back period.

Observe the following RE-CROPPING periods for SAFARI 600EC:

- 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 SAFARI 600EC. 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 SAFARI 600EC. 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 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 to 1500 kPa. A spray volume of 3,000 to 4,000 L per infested hectare (30 to 40 L/100m²) should be used on the weed infestation.

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

B. Aerial Application

Apply in 100 to 200 L 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.

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 2 mL/sec and sweeping action of approximately 1 m/sec to ensure a droplet density of 20/cm². Use a marking agent as recommended by the equipment manufacturers, 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 equipment manufacturers, to check spray coverage.

Gas powered gun: Apply 50 mL shots to obtain uniform coverage of 4 to 5 m² of surface area of bush. This relates to 20 droplets/cm² 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 200 kPa) 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 SAFARI 600EC 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.

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 200 kPa, 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 30 cm high, wetting thoroughly to the point of run-off (unless otherwise stated).

Cut Stump Method: Stems should be cut less than 15 cm above the ground. **Immediately** apply SAFARI 600EC 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 SAFARI 600EC in a minimum spray volume of 50 L/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 SAFARI 600EC to physically drift onto desirable plants. Aircraft may be used to apply SAFARI 600EC in fallow situations, when ground application equipment cannot be used due to prolonged wet conditions. A minimum spray volume of 35 L/ha should be used with flat fan and CP nozzle configurations. DO NOT apply SAFARI 600EC by aircraft when wind exceeds 10 km/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.

CLEANING SPRAY EQUIPMENT

Water-Based Cleaning

Rinsing: After using SAFARI 600EC, 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 SAFARI 600EC, 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 SURE*, OMO*, DRIVE* at 500 mL/100 L of water or the powder equivalent at 500 g/100 L 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.

Diesel-Based Cleaning

Rinsing: After using SAFARI 600EC, 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 50 mL/ 10 L of water or the powder equivalent at 50 g/10 L of water). Shake or operate sprayer 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 purpose.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Crops susceptible to SAFARI 600EC 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.

SAFARI 600EC 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 SAFARI 600EC and Wipe-Out 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.

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 on site. If recycling, replace cap and return clean containers to recycler or a 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 500 mm 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.

Envirodrum Micro Matic Valve (110 L)

Store the original sealed Envirodrum in a cool well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the Envirodrum with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the Envirodrum have been used, please return the Envirodrum to the point of purchase. The Envirodrum remains the property of Adama Australia Pty. Ltd.

1000 L

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Storage must be secure so that contents cannot be tampered with. All locks and/or seals must be in order. If locks or seals are broken prior to initial use then the integrity of this product cannot be assured. If this occurs Adama Australia Pty. Ltd. should be advised immediately. This minibulk container is reusable and remains the property of Adama Australia Pty. Ltd. DO NOT rinse empty container. Empty contents fully into application equipment. Close all valves and return to the point of supply for refill or storage. No other liquid, solid or pesticide product should be put into it. When empty return to Adama Australia Pty. Ltd. for cleaning, relabelling and refilling.

SMALL SPILL MANAGEMENT

Wear protective equipment (see Safety Directions). Apply absorbent material such as earth, sand, clay granules or cat litter to the spill. Sweep up material for disposal when absorption is completed and contain in a refuse vessel for disposal (see Storage and Disposal section). If necessary wash the spill area with an alkali detergent and water and absorb the wash liquid as above for disposal.

SAFETY DIRECTIONS

Poisonous if swallowed. May irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container and preparing the 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. **If in eyes**, hold eyes open, flood with water for at least 15 minutes and see a doctor.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for SAFARI 600EC is available from Adama on request. Call Customer Service on (02) 9431 7800.

CONDITIONS OF SALE: The use of SAFARI® 600EC Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia Pty. Ltd., regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Adama Australia Pty. Ltd. accepts no responsibility for any consequence whatsoever from the use of this product.

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* Other Trademarks

UN No: 3082
ENVIRONMENTALLY
HAZARDOUS SUBSTANCE,
LIQUID, N.O.S.
PACKAGING GROUP: III
HAZCHEM CODE: 2X



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Batch No.

Date of Manufacture