

Product Name: MacPhersons KOMACHI Activator Herbicide
APVMA Approval No: 88528/129993



Label Name:	MacPhersons KOMACHI Activator Herbicide
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Signal Headings:	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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Constituent Statements:	80 g/L AMINOPYRALID PRESENT AS TRIISOPROPANOLAMINE SALT
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Mode of Action:	GROUP 4 HERBICIDE
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Statement of Claims:	For the control Eucalyptus spp. when mixed with a Triclopyr and Picloram Herbicide, and Apple Box, certain Eucalyptus spp and Paterson's curse (Echium plantagineum) when mixed with a Metsulfuron-methyl herbicide as specified in the Directions for Use
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Net Contents:	1L - 20L
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Restraints:	• For PROFESSIONAL use only • DO NOT apply by aircraft • 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, damage or previous herbicide treatment, as reduced levels of control may result. • DO NOT spray if rain is likely within 1 hour or if foliage is wet from rain or dew. • In areas prone to flooding treatment should commence after any annual flooding as such areas flooded within 9 months following application may have reduced results. • DO NOT make hay or silage, from pastures treated with KOMACHI Activator, for 6 months after application. 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
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	of plant or livestock commodities, outside the application site from spray drift. 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.
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Directions for Use:	This section contains file attachment.
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Other Limitations:	IMPORTANT: Read the MANAGEMENT OF RESIDUES IN COMPOST, MULCHES AND ANIMAL WASTE in the PROTECTION OF CROPS, NATIVES AND OTHER NON-TARGET PLANTS section of this label.
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Withholding Periods:	When using MacPhersons KOMACHI Activator Herbicide in tank mixtures with a herbicide containing both 300g/L Triclopyr and 100g/L Picloram. Pasture: Cutting or Grazing Pastures for Stock Food: NOT REQUIRED WHEN USED AS DIRECTED. When using MacPhersons KOMACHI Activator Herbicide in tank mixtures with a herbicide containing 600g/kg Metsulfuron-methyl. Pasture: Grazing for meat production: DO NOT GRAZE FOR 56 DAYS AFTER APPLICATION OR if GRAZING PRIOR TO 56 DAYS AFTER APPLICATION DO NOT send animals for slaughter that have grazed treated pasture WITHIN 56 DAYS OF APPLICATION UNLESS first placing the animals on clean feed for 3 days before leaving the farm. Grazing for milk production: DO NOT GRAZE FOR 3 DAYS AFTER APPLICATION. Cutting for animal feed: DO NOT CUT FOR 56 DAYS AFTER APPLICATION.
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Trade Advice:	LIVESTOCK DESTINED FOR EXPORT MARKETS The grazing withholding period only applies to stock slaughtered for the domestic market. Some export markets apply different standards. To meet these standards, ensure that in addition to complying with the grazing withholding period, the Export Slaughter Interval is observed before stock are sold or slaughtered. EXPORT SLAUGHTER INTERVAL (ESI) – 3 days: Livestock that has been grazed on or fed treated crops within 42 days of application should be placed on clean feed for 3 days prior to slaughter. EXPORT GRAZING INTERVAL (EGI) – 42 days. Livestock that has been grazing on treated crops or pasture should not be sold for export slaughter for 42 days (6 weeks) after application of the chemical product, unless the export slaughter interval has been observed. When MacPhersons KOMACHI Activator Herbicide is used as directed and the above withholding periods and/or export intervals are observed, treated grain and livestock commodities are considered acceptable for export. However, export requirements are subject to change. Consult your exporter for updated information about specific market requirements.
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General Instructions:	This section contains file attachment.
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Resistance Warning:	GROUP 4 HERBICIDE MacPhersons KOMACHI Activator 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 the product or other Group 4 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, TGAC Australia Pty Ltd accepts no liability for any losses that may result from the failure of the product 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 TGAC Australia Pty Ltd representative.
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Precautions:	MANAGEMENT OF RESIDUES IN COMPOST, MULCHES AND ANIMAL WASTE DO NOT cut pasture for hay or silage production within 6 months of application, where it is intended for use off-farm. DO NOT use treated plant material to make, compost, mulches or mushroom substrate. DO NOT send straw from treated pastures off-farm for these purposes or for animal bedding. DO NOT send animal manure, dairy shed and feed pad effluent that has been collected from animals grazing or fed pastures treated within the previous 6 months off-farm. Spreading/irrigating this manure/effluent may cause damage to clover and other susceptible plants. DO NOT send compost made from animal waste that has been collected from animals grazing or fed pastures treated within the previous 6 months off-farm. Such compost may cause damage to clover and other susceptible plants. DO NOT apply animal waste (e.g. manure, slurry) collected from animals grazing or fed pastures treated within the previous 6 months to susceptible plants or land to be used to grow susceptible plants. To promote herbicide decomposition, manure should be evenly incorporated in the surface soil. Breakdown of residues in decomposing plants or manure is more rapid under warm, moist soil conditions and may be enhanced by supplemental irrigation. RE-ENTRY PERIOD DO NOT enter treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.
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Protections:	PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS Crops susceptible to MacPhersons KOMACHI Activator Herbicide include, but are not limited to: peas, lupins, lucerne, navy beans, peanuts, soybeans and other legumes, cotton, flowers, fruit, hops, ornamentals, shade trees and Pinus spp., potatoes, safflower, sugar beet, sunflowers, tobacco, tomatoes, vegetables and vines. MacPhersons KOMACHI Activator Herbicide is damaging to susceptible crops during both growing and dormant periods. Grasses are normally unaffected and establish quickly after treatment. Aminopyralid, the active constituent in this product, can remain active in the soil for extended periods depending on soil type and application rate, rainfall, temperature, humidity, soil moisture and soil organic matter. DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands, pastures, waterways or native vegetation.
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	DO NOT allow physical spray drift onto waterways, native vegetation and susceptible crops. DO NOT apply close to, or in areas, containing roots of desirable vegetation, where treated soil may be washed onto areas growing (or areas to be planted with) desirable plants. DO NOT apply on sites where surface water from heavy rain can be expected to run off to areas containing, or to be planted with susceptible crops or plants. DO NOT move soil, which may have been treated to areas where desirable plants are to be grown. SOIL BIOASSAY A simple bioassay can be conducted by collecting at least 10 spade spits of soil to a depth of 200mm from around the paddock and thoroughly mixing the soil together. Place some of this soil in a shallow container to a depth of 3-5 cm and sow 100 seeds of the susceptible plant to be grown (subterranean or white clover is a good indicator plant where it is not practical to use the susceptible crop) into the soil. Keep in a warm and well light location and ensure the soil does not dry out. After plant emergence, check the number of plants that have germinated and seedling vigour. Symptoms of MacPhersons KOMACHI Activator Herbicide residues include non-germination or low plant emergence, leaf cupping, leaf whitening, stem elongation and twisting. If these symptoms occur do not grow the susceptible plant. Repeat the bioassay again after a further time interval. Further information on residues in composts, mulches and animal wastes can be obtained from your farm chemical supplier, consultant, local Department of Agriculture, or local TGAC Australia Pty Ltd representative. 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. Many plants remain poisonous after death, and stock should not be allowed access, as there is a likelihood that they may graze the dead material. Such material should be burnt if possible. PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT DO NOT contaminate streams, rivers or waterways with the chemical or used containers.
Storage and Disposal:	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, feedstuffs, fertilisers or seed. The method of disposal of the container depends on the container type. Read the STORAGE AND DISPOSAL instructions on the label that is attached to the container. SPILL AND LEAK MANAGEMENT Do not touch or walk through spilled material. Wear a face shield or goggles, overalls buttoned to neck and wrist, chemical resistant gloves and footwear. Stop leak when safe to do so. Dam area and prevent entry into waterways, and drains. Small spills/leaks: Absorb with material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal.
Safety Directions:	May irritate the skin. Will irritate eyes. Avoid contact with eyes and skin. When using together with other products, consult their label safety directions. When opening the container, preparing the product for use and using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves and goggles. After each day's use wash gloves, goggles and contaminated clothing. Wash hands after use.

First Aid Instructions:	If poisoning occurs contact a doctor or Poisons Information Centre. Phone: Australia 13 11 26, New Zealand 0800 764 766 If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
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First Aid Warnings:	
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GENERAL INSTRUCTIONS

Aminopyralid remains active in the soil for extended periods depending on the rate of application, soil type (clay content), rainfall, temperature, humidity, soil moisture and soil organic matter.

COMPATIBILITY

Follow any regional restrictions, and all directions and restrictions on the label, of any chemical mixed with **MacPhersons KOMACHI Activator Herbicide**. **MacPhersons KOMACHI Activator Herbicide** is compatible with many other herbicides but users should conduct small jar-tests to check for compatibility before preparing tank mixes. **MacPhersons KOMACHI Activator Herbicide** is compatible with the following adjuvants, as per Directions for Use on this label; Uptake™ Spraying Oil, BS1000 Biodegradable Surfactant, (alternatives are Chemwet 1000 and Spreadwet 1000 Wetting Agent), EuroChem Penetrant Adjuvant and Pulse® Penetrant.

MIXING

Mix only with water.

Half fill the spray unit with water, and add the required amount of **MacPhersons KOMACHI Activator Herbicide**. Add the companion herbicide (a 300g/L Triclopyr and 100g/L Picloram product or the 600g/kg metsulfuron-methyl product) and then the remaining water with the agitator running. If required, then add spray 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.

APPLICATION

Only apply **MacPhersons KOMACHI Activator Herbicide** under atmospheric conditions that do not allow drift onto sensitive crops to occur.

Pasture and Non-cropping Situations Only

A. High Volume Spraying

Thorough coverage of foliage to the point of run-off is essential; however, avoid excess spraying which is wasteful of chemical. **Always consult the companion herbicide label for further details.**

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.

B. Low Volume High Concentrate Application Techniques

Good control will be achieved, similar to high volume application, where bush size enables good coverage of entire bush. Use a marking agent, as recommended by the equipment manufacturers, to check spray coverage. **Always consult the companion herbicide label for further details.**

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 that is connected to a hollow fibre glass rod attached to a pneumatic 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.

C. Ground Boom Spray Application

Always consult the companion herbicide label for further details.

Woody Weed Situations

Apply in a minimum spray volume of 200L/ha. Use nozzle configurations to produce coarse spray droplets. Boom height must be set to ensure overlap of nozzle patterns.

Pasture & Pasture Renovation Situations

Apply in a minimum spray volume of 70L/ha. Use nozzle configurations to produce coarse spray droplets. Increase to 200L/ha or more for in dense stands. Boom height must be set to ensure overlap of nozzle patterns.

CLEANING SPRAY EQUIPMENT

Rinsing

After using **MacPhersons KOMACHI Activator Herbicide**, empty the spray unit completely and drain the whole system. Thoroughly wash inside the 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 **MacPhersons KOMACHI Activator 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 a standard alkali-based laundry detergent at 500g (or mL)/100 L water and circulate throughout the system for at least 15 minutes. If using a concentrated laundry detergent use 250g (or mL)/100 L water. Do not use chlorine-based cleaners. 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 watercourses.

DIRECTIONS FOR USE

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	RATE /100L Water	CRITICAL COMMENTS
<i>Eucalyptus</i> spp.	Seedling and regrowth from small lignotubers, 1 to 3 m tall	35mL + 350mL of a Triclopyr/Picloram herbicide (1) <i>or</i> 50mL + 500mL of a Triclopyr/Picloram herbicide (1)	Apply the high rate where difficult to control species of <i>Eucalyptus</i> regrowth is present. Addition of an adjuvant may improve results. Contact TGAC Australia Pty Ltd for details. (1) Only to be used as a tank-mix with a herbicide containing both 300g/L Triclopyr and 100g/L Picloram. Always follow all the directions on the companion herbicide label.

Table B: 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	RATE /10L Water	CRITICAL COMMENTS
<i>Eucalyptus</i> species	Seedlings up to 2 m tall	34mL + 335mL of a Triclopyr/Picloram herbicide (1)	Apply to actively growing bushes which are able to be sprayed on all sides. For larger bushes, the high volume application technique is recommended. (1) Only to be used as a tank-mix with a herbicide containing both 300g/L Triclopyr and 100g/L Picloram. Always follow all the directions on the companion herbicide label.

PASTURE and NON- AGRICULTURAL SITUATIONS

Table C: High Volume Spraying (Hand-gun)

See GENERAL INSTRUCTIONS - APPLICATION section for application method details

NON AGRICULTURAL AREAS (NATIVE PASTURES (Note 1), COMMERCIAL AND INDUSTRIAL AREAS, RIGHTS-OF-WAY			
Adjuvant: Always add BS1000 at 100mL/100L or an alternative (see the section “Use of Surfactant/Wetting Agent” in the GENERAL INSTRUCTIONS) unless Pulse® Penetrant or Uptake™ Spraying Oil is recommended			
WEEDS CONTROLLED	STATES	RATE /100L Water	CRITICAL COMMENTS
Apple box <i>(Angophora floribunda)</i> Messmate stringybark <i>(Eucalyptus obliqua)</i> Peppermint gum <i>(E. radiata)</i> Red gum <i>(E. blakelyi)</i> Yellow box <i>(E. melliodora)</i>	NSW, Qld, SA only	94mL + 10g of a Metsulfuron-methyl 600 herbicide (1) plus 200mL/100L EuroChem Penetrant Adjuvant (or Pulse®)	Apply to plants up to 4 m high. Ensure thorough foliage cover. Results cannot be guaranteed where suckers originate from large lignotubers. (1) Only to be used as a tank-mix with a herbicide containing metsulfuron-methyl at 600g/kg. Always follow all the directions on the companion herbicide label.
Paterson's curse (Echium plantagineum)	All States	47mL + 5g of a Metsulfuron-methyl 600 herbicide (1)	(1) Only to be used as a tank-mix with a herbicide containing metsulfuron-methyl at 600g/kg. Always follow all the directions on the companion herbicide label.

Note 1 : WILL DAMAGE LEGUMES PRESENT IN THE PASTURE

Table D: Low Volume High Concentrate Application Techniques (Gas Gun)

See GENERAL INSTRUCTIONS - APPLICATION section for application method details.

NON AGRICULTURAL AREAS (NATIVE PASTURES (Note 1), COMMERCIAL AND INDUSTRIAL AREAS, RIGHTS-OF-WAY			
BEFORE USE READ the APPLICATION section below for instructions on use of the Gas Gun			
WEEDS CONTROLLED	STATES	RATE /10L Water	CRITICAL COMMENTS
Apple box <i>(Angophora floribunda)</i> Messmate stringybark <i>(Eucalyptus obliqua)</i> Peppermint gum <i>(E. radiata)</i> Red gum <i>(E. blakelyi)</i> Yellow box <i>(E. melliodora)</i>	NSW, Qld, SA only	94mL + 10g of a Metsulfuron-methyl 600 herbicide (1) plus 20mL/10L EuroChem Penetrant Adjuvant (or Pulse®)	Apply to plants up to 4 m high. Results cannot be guaranteed where suckers originate from large lignotubers. (1) Only to be used as a tank-mix with a herbicide containing metsulfuron-methyl at 600g/kg. Always follow all the directions on the companion herbicide label.

Note 1 : WILL DAMAGE LEGUMES PRESENT IN THE PASTURE

Table E: Boom Application

See GENERAL INSTRUCTIONS - APPLICATION section for application method details.

NON AGRICULTURAL AREAS (NATIVE PASTURES (<i>Note 1</i>), COMMERCIAL AND INDUSTRIAL AREAS, RIGHTS-OF-WAY			
Adjuvant: Always add BS1000 at 100mL/100L or an alternative (see the section “Use of Surfactant/Wetting Agent” in the GENERAL INSTRUCTIONS) unless Pulse® Penetrant			
WEEDS CONTROLLED	STATES	RATE /100L Water	CRITICAL COMMENTS
<i>Paterson’s curse (Echium plantagineum)</i>	All States	140mL + 15g of a Metsulfuron-methyl 600 herbicide (1)	Spray to thoroughly wet all foliage. Adjust boom height to ensure complete overlap. (1) Only to be used as a tank-mix with a herbicide containing metsulfuron-methyl at 600g/kg. Always follow all the directions on the companion herbicide label.

Note 1 : WILL DAMAGE LEGUMES PRESENT IN THE PASTURE

Table F: Ground Boom Application for Control of Certain Broadleaf Weeds in Tolerant Grass Pastures or in Pasture Renovation

See GENERAL INSTRUCTIONS - APPLICATION section for application method details.

ESTABLISHED PASTURES : TOLERANT GRASS SPECIES (Perennial phalaris & cocksfoot stands greater than 1 year old) OR PASTURE RENOVATION (<i>Note 1</i>) (Use in rundown pastures to reduce weed burden before sowing with a pasture in the following year)			
Adjuvant: Always add BS1000 at 100mL/100L or an alternative (see the section “Use of Surfactant/Wetting Agent” in the GENERAL INSTRUCTIONS)			
WEEDS CONTROLLED	STATES	RATE /100 L Water	CRITICAL COMMENTS
<i>Paterson’s curse (Echium plantagineum)</i>	Vic, SA, NSW, WA, Qld and Tas only	94mL + 10g of a Metsulfuron-methyl 600 herbicide (1) Or 140mL + 15g of a Metsulfuron-methyl 600 herbicide (1)	Apply the lower rate on small plants. Apply the higher rate before bolting/flowering. (1) Only to be used as a tank-mix with a herbicide containing metsulfuron-methyl at 600g/kg. Always follow all the directions on the companion herbicide label.

Note 1 : WILL DAMAGE LEGUMES PRESENT IN THE PASTURE

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