

CAUTION

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

Platinum[®]

Herbicide

ACTIVE CONSTITUENT: **240 g/L CLETHODIM**

SOLVENT: 606 g/L LIQUID HYDROCARBONS

GROUP A HERBICIDE

For the control of certain grass weeds in beetroot, cabbage, canola, celery, cotton, forestry, lettuce, non-bearing fruit trees, onions, ornamentals, peanuts, pulses (including adzuki beans, broad beans, chickpeas, faba beans, field peas, lentils, lupins and mung beans), potatoes, soybeans and pasture legume (lucerne, clover and medic) seed crops (and pastures) according to the Directions for Use table



ADAMA

Formulation type
Emulsifiable
Concentrate

EC

adama.com

CONTENTS: 1 L, 5 L, 10 L, 20 L, 60 L, 110 L, 200 L, 1000 L

DIRECTIONS FOR USE

RESTRAINTS: DO NOT apply without the addition of an oil (see GENERAL INSTRUCTIONS).
DO NOT apply to plants that are stressed by moisture or temperature extremes.
DO NOT apply if rain is expected within one hour of application.
DO NOT apply more than once to any one crop.

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	RATE (mL/ha)	STAGE OF WEED GROWTH	STATE	CRITICAL COMMENTS
Canola	For rates over 250 mL/ha, DO NOT APPLY after the rosette stage (GS 29).	Annual Ryegrass (<i>Lolium rigidum</i>), Annual Phalaris (<i>Phalaris minor</i>)	150 - 500	2 leaf to fully tillered	Qld, NSW, ACT, Vic, Tas, SA, WA only	Always apply with a crop oil. See Adjuvants and Spray Additives for specific instructions. The lower doses will provide effective control if applied under ideal conditions to weeds that are smaller, actively growing and free from temperature or water stress. See COMPATIBILITY AND CAUTIONS in GENERAL INSTRUCTIONS for mixture recommendations with insecticides, fungicides and other herbicides. Rates above 250 mL/ha may cause flower deformation resulting in lower yields if applied after the rosette stage (GS 29) or under stress conditions. Some varieties may be more susceptible than others.
		Barley Grass (<i>Hordeum leporinum</i>), Brome Grass (<i>Bromus diandrus</i>), Wild Oats (<i>Avena</i> spp.)	175 - 500			
	Volunteer Wheat (<i>Triticum aestivum</i>), Volunteer Oats (<i>Avena sativa</i>)	200 - 500 (175 - 500 in WA only)				
	Silver Grass (<i>Vulpia bromoides</i>) – suppression only	250 - 500				
	Paradoxa Grass (<i>Phalaris paradoxa</i>)	250 - 375 375 - 500				
	For rates of less than 250 mL/ha, DO NOT apply after flower buds become visible (green buds).			2 - 5 leaf stage 5 leaf to fully tillered	NSW, ACT, Vic, Tas only Qld, NSW, ACT only	

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	RATE (mL/ha)	STAGE OF WEED GROWTH	STATE	CRITICAL COMMENTS
Pulse crops (including Adzuki Beans, Broad Beans, Chickpeas, Faba Beans, Field Peas, Lentils* and Lupins*). Pasture Legume (Lucerne, Clover and Medic) Seed Crops and Pastures ¹ (including pastures containing Chicory and Plantain).	Adzuki beans: DO NOT APPLY after first flower buds are visible. Chickpeas, faba beans, broad beans, field peas: DO NOT APPLY beyond full flowering. Lentils: Apply up to the 7 node/early branching stage of crop growth. Lupins: DO NOT APPLY after 80% of flowers have opened.	Annual Ryegrass (<i>Lolium rigidum</i>), Annual Phalaris (<i>Phalaris minor</i>)	150 - 500	2 leaf to fully tillered	Qld, NSW, ACT, Vic, Tas, SA, WA only	Always apply with a crop oil. See Adjuvants and Spray Additives for specific instructions. The lower doses will provide effective control if applied under ideal conditions to weeds that are smaller, actively growing and free from temperature or water stress. See COMPATIBILITY AND CAUTIONS in GENERAL INSTRUCTIONS for mixture recommendations with insecticides, fungicides and other herbicides. * Application up to 7-node/early branching crop growth stage only. # NOT QLD ¹ See use of PLATINUM® Herbicide in pastures under General Instructions.
		Barley Grass (<i>Hordeum leporinum</i>), Brome Grass (<i>Bromus diandrus</i>), Wild Oats (<i>Avena</i> spp.)	175 - 500			
		Volunteer Wheat (<i>Triticum aestivum</i>), Volunteer Oats (<i>Avena sativa</i>)	200 - 500 (175 - 500 in WA only)			
		Volunteer Barley (<i>Hordeum vulgare</i>)	500			
		Silver Grass (<i>Vulpia bromoides</i>) – suppression only	250 - 500			
Cotton (Qld, NSW and NT only), Peanuts, Mung beans, Soybeans. Pasture Legume (Lucerne, Clover and Medic) Seed Crops and Pastures ¹ (including Pastures containing Chicory and Plantain).	Cotton: DO NOT APPLY after full flowering (mid bloom). Peanuts: DO NOT APPLY after the pod fill stage of crop development. Mung beans, soybeans: DO NOT APPLY after first flower buds are visible.	Barnyard Grass (<i>Echinochloa</i> spp.), Blown Grass (<i>Agrostis aveacea</i>), Crowsfoot Grass (<i>Eleusine indica</i>), Feathertop Rhodes Grass (<i>Chloris virgata</i>), Liverseed Grass (<i>Urochloa panicoides</i>), Red Sprangletop Grass (<i>Leptochloa filiformis</i>), Seedling Johnson Grass ² (<i>Sorghum halepense</i>), Summer Grass (<i>Digitaria</i> spp.), Volunteer Sorghum (<i>Sorghum</i> spp.)	250 - 375 375 - 500	2 - 5 leaf stage 5 leaf to fully tillered	Qld, NSW, ACT, Vic, WA, NT only	Always apply with a crop oil. See Adjuvants and Spray Additives for specific instructions. The lower doses will provide effective control if applied under ideal conditions to weeds that are smaller, actively growing and free from temperature or water stress. See COMPATIBILITY AND CAUTIONS in GENERAL INSTRUCTIONS for mixture recommendations with insecticides, fungicides and other herbicides. ¹ See use of PLATINUM® Herbicide in pastures under General Instructions. ² Only Johnson Grass seedlings germinating from seed will be controlled. Seedlings that appear later as shoots from underground stems will not be controlled, and more than one application may be required to control emerging shoots.
		Paradoxa Grass (<i>Phalaris paradoxa</i>)	250 - 375 375 - 500			
CROP	WEEDS CONTROLLED	RATE (mL/ha)	STAGE OF WEED GROWTH	STATE	CRITICAL COMMENTS	
Beetroot, Cabbage, Celery, Lettuce, Potatoes, Onions	Barnyard Grass (<i>Echinochloa</i> spp.), Blown Grass (<i>Agrostis aveacea</i>), Crowsfoot Grass (<i>Eleusine indica</i>), Feathertop Rhodes Grass (<i>Chloris virgata</i>), Liverseed Grass (<i>Urochloa panicoides</i>), Paradoxa Grass (<i>Phalaris paradoxa</i>), Red Sprangletop Grass (<i>Leptochloa filiformis</i>), Seedling Johnson Grass ¹ (<i>Sorghum halepense</i>), Summer Grass (<i>Digitaria</i> spp.), Volunteer Sorghum (<i>Sorghum</i> spp.)	250 - 375 375 - 500	2 - 5 leaf stage 5 leaf to fully tillered	All States	Always apply with a crop oil. See Adjuvants and Spray Additives for specific instructions. The lower doses will provide effective control if applied under ideal conditions to weeds that are smaller, actively growing and free from temperature or water stress. Use a spray volume of 150 L/ha when spraying dense grass populations. ¹ Only Johnson Grass seedlings germinating from seed will be controlled. Seedlings that appear later as shoots from underground stems will not be controlled, and more than one application may be required to control emerging shoots.	
		Annual Ryegrass (<i>Lolium rigidum</i>), Annual phalaris (<i>Phalaris minor</i>)				150 - 500
		Barley Grass (<i>Hordeum leporinum</i>), Brome Grass (<i>Bromus diandrus</i>), Wild Oats (<i>Avena</i> spp.)				175 - 500
		Volunteer Wheat (<i>Triticum aestivum</i>), Volunteer Oats (<i>Avena sativa</i>)				200 - 500 (175 - 500 in WA only)
		Volunteer Barley (<i>Hordeum vulgare</i>)				500
		Silver Grass (<i>Vulpia bromoides</i>) – suppression only (not Qld, WA)				250 - 500
		Winter Grass (<i>Poa annua</i>)				500

CROP	WEEDS CONTROLLED	RATE (mL/ha)	STAGE OF WEED GROWTH	STATE	CRITICAL COMMENTS
Forestry, non-bearing fruit trees and ornamentals	Annual Ryegrass (<i>Lolium rigidum</i>), Annual Phalaris (<i>Phalaris minor</i>), Barley Grass (<i>Hordeum leporinum</i>), Barnyard Grass (<i>Echinochloa</i> spp.), Blown Grass (<i>Agrostis aveacea</i>), Brome Grass (<i>Bromus diandrus</i>), Crowsfoot Grass (<i>Eleusine indica</i>), Feathertop Rhodes Grass (<i>Chloris virgata</i>), Liverseed Grass (<i>Urochloa panicoides</i>), Paradoxa Grass (<i>Phalaris paradoxa</i>), Red Sprangletop Grass (<i>Leptochloa filiformis</i>), Seedling Johnson Grass ¹ (<i>Sorghum halepense</i>), Silver Grass (<i>Vulpia bromoides</i>) – suppression only (not QLD, WA), Summer Grass (<i>Digitaria</i> spp.), Volunteer Sorghum (<i>Sorghum</i> spp.), Volunteer Wheat (<i>Triticum aestivum</i>), Volunteer Oats (<i>Avena sativa</i>), Volunteer Barley (<i>Hordeum vulgare</i>), Winter Grass (<i>Poa annua</i>)	500	2 leaf to fully tillered	All States	Apply after plants have recovered from transplant shock and are showing signs of active growth. Always apply with a crop oil. See Adjuvants and Spray Additives for specific instructions. Use a spray volume of 150 L/ha when spraying dense grass populations. DO NOT use on Gymnosperms (pines, conifers, etc) unless a prior test has been conducted to check safety on the relevant species. See COMPATIBILITY AND CAUTIONS in GENERAL INSTRUCTIONS for particular species. ¹ Only Johnson Grass seedlings germinating from seed will be controlled. Seedlings that appear later as shoots from underground stems will not be controlled, and more than one application may be required to control emerging shoots.

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

WITHHOLDING PERIODS

HARVEST:

PASTURE LEGUME (LUCERNE, CLOVER AND MEDIC) SEED CROPS AND PASTURES:

NOT REQUIRED WHEN USED AS DIRECTED.

CANOLA, COTTON, PEANUTS, PULSES (ADZUKI BEANS, BROAD BEANS, CHICKPEAS, FABA BEANS, FIELD PEAS, LENTILS, LUPINS, AND MUNG BEANS) AND SOYBEANS:

NOT REQUIRED WHEN USED AS DIRECTED.

FORESTRY:

NOT REQUIRED WHEN USED AS DIRECTED.

BEETROOT, CABBAGE:

DO NOT APPLY LATER THAN 7 DAYS BEFORE HARVEST.

ONIONS:

DO NOT APPLY LATER THAN 14 DAYS BEFORE HARVEST.

LETTUCE, POTATOES:

DO NOT APPLY LATER THAN 4 WEEKS BEFORE HARVEST.

CELERY:

DO NOT APPLY LATER THAN 9 WEEKS BEFORE HARVEST.

GRAZING:

PASTURE LEGUME (LUCERNE, CLOVER AND MEDIC) SEED CROPS AND PASTURES:

DO NOT GRAZE OR CUT FOR STOCK FEED FOR 14 DAYS AFTER APPLICATION.

CANOLA, PEANUTS, PULSES (ADZUKI BEANS, BROAD BEANS, CHICKPEAS, FABA BEANS, FIELD PEAS, LENTILS, LUPINS, AND MUNG BEANS) AND SOYBEANS:

DO NOT GRAZE OR CUT FOR STOCK FEED FOR 21 DAYS AFTER APPLICATION.

COTTON:

DO NOT GRAZE OR CUT COTTON FORAGE OR STUBBLE FOR STOCK FEED.

GENERAL INSTRUCTIONS

RESISTANT WEEDS WARNING

PLATINUM® Herbicide is a member of the cyclohexanedione group of herbicides. PLATINUM® has the inhibition of acetyl coA carboxylase mode of action. For weed resistance management PLATINUM® is a Group A herbicide. Some naturally occurring weed biotypes resistant to PLATINUM® and other Group A 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 PLATINUM® or other Group A Herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Adama Australia accepts no liability for any losses that may result from the failure of PLATINUM® to control resistant weeds.

MIXING

To ensure even mixing, half-fill the spray tank with clean water and add the required amount of product. Add spray additive and agitate thoroughly, then add the remainder of the water. Agitate again before spraying commences.

ADJUVANTS AND SPRAY ADDITIVES

Always apply PLATINUM® with a crop oil. PLATINUM® may be applied with Hasten¹, Kwickin¹, Activoil, D-C-Trate Advance or Rocket at 1 L/100 L water or with Uptake¹ or Enhance¹ at 0.5-1 L/100 L water. (Use the higher rate of oil when weeds are large or if spraying conditions are less than optimal.)

PLATINUM® may also be applied with D-C-Trate at 2 L/100 L water. PLATINUM® is compatible with ammonium sulphate products such as Liase. When mixing PLATINUM® with atrazine use Uptake or Enhance at 1 L/100 L as the adjuvant. The addition of ammonium sulphate is recommended to improve performance of this tank mix. PLATINUM® is not compatible with Hot-Up Spray Adjuvant or Freeway Gold Penetrant.



APPLICATION

Ground Application: PLATINUM® should be applied with calibrated spray equipment producing a median droplet range of 200 to 300 microns VMD. Apply in a minimum of 50 litres of water per hectare. Use 150 L/ha when spraying dense populations.

Aerial Application: PLATINUM® can be applied through aircraft fitted with boom or Micronair equipment. A spray volume of 20 to 30 L/ha is recommended and equipment should be adjusted to deliver droplets in the range of 200 - 250 microns VMD.

Best results will be obtained when aerial applications are made in a light crosswind. Applications should not be made during temperature inversions or in conditions of very low relative humidity. Care should be taken to avoid drift damage to adjoining grass crops.

USE OF PLATINUM® ON PASTURE LEGUME (LUCERNE, CLOVER OR MEDIC) SEED CROPS AND PASTURES AND PASTURE HERBS

PLATINUM® has been demonstrated to be safe when applied to the following cultivars during early establishment.

Pasture Legumes

Clover (*Trifolium* spp.)

Annual: Subterranean Clover (*Dalkeith, Dalsa, Goulburn, Koala, Nungarrin, Riverina, Seaton park and York A*), Arrowleaf Clover (*Zulu II*), Balansa Clover (*Enduromax, Frontier, Paradana*), Berseem Clover (*Elite II*), Gland Clover (*Prima*), Persian Clover (*Prolific, Leeton*), Rose Clover (*Hykon*).

Perennial: Strawberry Clover (*Palestine*), White Clover (*NuSira*).

Lucerne and Medics (*Medicago* spp.)

Lucerne (*Aurora, Field, Genesis, Hunterfield, Multileaf, Salado, Sardi SEVEN, Sceptre and Venus*), Barrel Medic (*Sephi, Jester Paraggio, Caliph*), Burr Medic (*Scimitar, Santiago*), Snail Medic (*Silver*).

Serradella (*Ornithopus* spp.)

French or Pink Serradella (*Cadiz*), Yellow Serradella (*Charano, Santorini*).

Pasture Herbs

Chicory (*Puna II*) and Plantain (*Tonic*)

Apply PLATINUM® when plants have reached 2-4 trifoliate leaf stage, or after 40 days from sowing. Some pasture varieties may exhibit an initial reduction in crop vigour or biomass, however, these symptoms are transient and crops recover fully with no effect on yield.

COMPATIBILITY

PLATINUM® is compatible with the following grass herbicides: Targa[†], Fusilade[†], Verdect[†], Sertin[†] and Leopard®.

Note: In all situations where PLATINUM® is mixed with another grass herbicide, PLATINUM® should be used at the full label rate specified for the target weed species.

PLATINUM® may also be applied in tank mixtures with Alpha-Scud® Elite.

PLATINUM® should not be applied in a tank mix with Brodal[†] (diflufenican), Basagran[†] (bentazone) or Blazer[†] (acifluorfen). Apply as separate applications.

For information on compatibility of products not listed, please refer to Adama Australia .

CAUTION

Ornamentals and Trees – while PLATINUM® is generally selective to broadleaved plants (i.e. it is active against grasses), tests should always be made on a small number of plants not previously tested. DO NOT use on Gymnosperms (pines, conifers, etc) unless a prior test has been conducted to check safety on the relevant species.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply PLATINUM® if wind is likely to cause drift onto susceptible crops/plants, cropping lands or pastures. PLATINUM® should not be applied through misting equipment or any other method likely to cause excessive drift. Care should be taken to avoid damage to adjoining native grasses or grass crops.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

STORAGE AND DISPOSAL (1 L)

Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight. 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 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.

STORAGE AND DISPOSAL (5 L, 10 L, 20 L, 200 L)

Store in the closed, original container in a well-ventilated area as cool as possible, out of direct sunlight. This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple rinse containers before disposal. Add rinsings to spray tank. Dispose of the rinsate by adding it to the spray tank. DO NOT dispose of undiluted chemicals on site. 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 or similar container management program site. The cap should not be replaced but may be taken separately. 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 (60 L, 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.

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 should be advised immediately. This minibulk container is reusable and remains the property of Adama Australia. 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 for cleaning, relabelling and refilling.

SAFETY DIRECTIONS

Harmful if swallowed. Will irritate the eyes and skin. When preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length chemical resistant gloves and face shield or goggles. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. If swallowed, DO NOT induce vomiting. Give a glass of water.

SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for PLATINUM® is available from adama.com or call Customer Service on 1800 423 262.

CONDITIONS OF SALE: The use of PLATINUM® Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia 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 accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE.

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