CAUTION

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

Exonerate® 200 SL

Herbicide

ACTIVE CONSTITUENT: 200 g/L GLUFOSINATE-AMMONIUM

GROUP N HERBICIDE

For the Non-Residual control of Broadleaf and Grass Weeds in Various Situations as specified in the Directions for Use table

Formulation type
Soluble Concentrate
SL

Distributed by
CENTAUR ASIA PACIFIC
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ADAMA

adama.com

CONTENTS: 1 L, 5 L, 10 L, 20 L, 60 L, 100 L, 110 L, 1000 L

DIRECTIONS FOR USE

RESTRAINTS: DO NOT apply by aircraft.
DO NOT apply when rain is expected within 6 hours.
DO NOT apply to weeds under stress due to, for example, very dry, very wet, frosty or diseased conditions.
DO NOT apply under hot dry conditions (temperatures above 33°C with a relative humidity below 50 %).

CROP / SITUATION	WEED	STATE	RATE	WHP	CRITICAL COMMENTS
Blackberry, Boysenberry, Loganberry, Raspberry	Primocane and sucker control	NSW, ACT, Vic, Tas only	500 mL/100 L water	Nil	Apply as a directed spray to suckers and primocanes. Contact with flowers, developing fruit or desirable foliage will cause damage. Ensure complete coverage of primocanes/suckers by spraying to the point of runoff, preferably when they are less than 15 cm high. A non-ionic wetting agent (WETSPRAY® 1000) may be added at a rate of 25 mL/100 L or equivalent.
Avocado, Banana, Feijoa, Guava, Kiwifruit, Litchi, Mango, Pawpaw, Passionfruit,Pineapple, Rambutan Plantations	See list of weeds controlled in Tables 1 and 2	Qld, NSW, ACT, Vic, SA, WA, NT only	1.0 - 5.0 L/ha		Apply as a directed or shielded spray. Refer to the label section **Application Equipment** for specific information on application methods. Controlled Droplet Application equipment must not be used for application in cherry orchards. **Warnings:** DO NOT apply spray or spray drift to contact desirable foliage or green (uncalloused) bark. To avoid potential crop damage, refer to the label sections on **Application Equipment** and **PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS.** **EXONERATE® 200 SL HERBICIDE may be used around trees/vines less than two years old provided they are effectively shielded from spray and spray drift.** The recommended rate of use is determined by the following criteria: WEED SPECIES WEED STAGE OF ROWTH WEED DENSITY CLIMATIC CONDITIONS
Citrus Orchards		All States			
Olive Plantations					

Continued overleaf

CROP / SITUATION	WEED	STATE	RATE	WHP	CRITICAL COMMENTS
Pome and Stone Fruit Orchards	See list of weeds controlled in Tables 1 and 2	All States	1.0 - 5.0 L/ha	21 days (H)	*From previous page* **WEED SPECIES** Apply the appropriate rate to control the least susceptible weed present as per the lists of weeds controlled in the accompanying tables. **WEED STAGE OF GROWTH** Use the lower rate when weeds are young and succulent (grasses: pre-tillering; broadleaves: cotyledons to 4-leaf) or the population is very sparse. A median rate should be used for medium sized plants (grasses: tillering; broadleaves: 4-leaf to advanced vegetative) and the high rate should be used when weeds are mature (grasses: noding to flowering; broadleaves: budding to flowering). **WEED DENSITY** Use the higher rates when the weed population is dense. **Thorough coverage of weeds is essential for good control.** **CLIMATIC CONDITIONS** **Best results are achieved when applied under warm humid conditions.** Control will be reduced and/or slower under cold conditions and/or overcast conditions. Good results will be achieved under most other conditions, however poor results may occur under hot dry conditions (temperature above 33^{o}C with a relative humidity below 50%). Weeds that have been hardened or stunted in growth due to stressed conditions should be treated at the maximum rate. **COVERAGE** Complete coverage of weeds is essential for good control. Poor coverage may result in re-growth. **PERENNIAL WEEDS** Apply when weeds are actively growing. Follow-up treatments will be necessary to control re-growth of perennial weeds in most cases.
Tree Nut Plantations				Nil	
Vineyards					
Strawberries, Cane Berry Fruits (inter-row)					Apply as a directed or shielded spray to the inter-row area. Take care not to allow spray or spray drift to contact the crop, including strawberry runners. Refer to **GENERAL INSTRUCTIONS** for warnings concerning plastic mulch and fumigated/sterilised soil. Determine the recommended rate of use by considering the criteria WEED SPECIES, WEED STAGE OF GROWTH, WEED DENSITY and CLIMATIC CONDITIONS, as described above.
Tomatoes (inter-row)					
Commercial & Industrial areas, Rights-of-way and other Non-agricultural areas			1.0 - 6.0 L/ha	–	Determine the recommended rate of use by considering the criteria WEED SPECIES, WEED STAGE OF GROWTH, WEED DENSITY and CLIMATIC CONDITIONS as described above. **Warnings:** DO NOT allow spray or spray drift to contact desirable plants. To avoid potential crop damage, refer to the label sections on **Application Equipment** and **PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS.**
Line-Marking on Sports Grounds	Turf grasses and any weeds		250 - 500 mL/ 100 L water		Refer to **GENERAL INSTRUCTIONS.** EXONERATE® 200 SL is a non-selective, non-residual herbicide with limited translocation potential. It is therefore ideally suited for line-marking on sports fields where precise weed control is required. Apply at 6 - 8 week intervals depending upon growth of turf. Apply using single boom or hand wand.

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

WITHHOLDING PERIODS (WHP)

HARVEST (H)

AVOCADO, BANANA, FEIJOA, GUAVA, KIWIFRUIT, LITCHI, MANGO, OLIVES, PAWPAW, PASSIONFRUIT, PINEAPPLE, RAMBUTAN, BLACKBERRY, BOYSENBERRY, LOGANBERRY, RASPBERRY, CITRUS FRUIT, GRAPES, STRAWBERRIES, TOMATOES, TREE NUTS: NOT REQUIRED WHEN USED AS DIRECTED.

POME AND STONE FRUIT: DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.

GRAZING (G)

DO NOT GRAZE OR CUT TREATED AREAS FOR STOCKFOOD FOR 8 WEEKS AFTER APPLICATION.

Table 1. Recommendations for weed control (except when referred to Table 2).				
Common Name	**Scientific Name**	**Application Rates**		
		Boom or Directed Sprayer L/ha	**Handgun mL/100L**	**Knapsack mL/15L**
ANNUAL WEEDS				
Amaranthus species	*Amaranthus* spp.	2.0 - 5.0	500	75
Apple of Peru	*Nicandra physalodes*	1.5 - 3.0	300	45
Argentine Peppercress	*Lepidium bonariense*	2.0 - 3.0		
Awnless Barnyard Grass	*Echinochloa colona*	2.5 - 3.5	350	53
Barley Grass	*Hordeum leporinum*	2.0 - 3.0	300	45
Barnyard Grass	*Echinochloa crus-galli*	2.0 - 5.0	500	75
Billy Goat Weed	*Ageratum conyzoides*			
Bitter Cress	*Cardamine hirsute*			
Black Bindweed (Buckwheat) (refer Note 2)	*Fallopia convolvulus*	1.8 - 5.0		
Bladder Ketmia	*Hibiscus trionum*	3.0 - 5.0		
Bordered Panic	*Entolasia marginata*	2.0 - 4.0	400	60
Brome Grass (refer Note 1)	*Bromus* spp.	2.0 - 3.0	300	45
Calopo	*Calopogonium mucanoides*	2.0 - 5.0	500	75
Caltrop Burr (refer also Table 2)	*Tribulus terrestris*	3.0 - 5.0		
Capeweed	*Arctotheca calendula*	1.5 - 5.0		
Clover (Subterranean)	*Trifolium subterranean*	1.8 - 3.0	300	45
Cobbler's Peg	*Bidens pilosa*	2.0 - 5.0	500	75
Common Storksbill	*Erodium cicutarium*	1.5 - 4.0	400	60
Crowsfoot Grass	*Eleusine indica*	3.0 - 5.0	500	75
Deadnettle (refer also Table 2)	*Lamium amplexicaule*	2.0 - 5.0		
Dwarf Crumbweed	*Chenopodium pumilo*	3.0 - 5.0		
Fat Hen	*Chenopodium album*			
Fumitory	*Fumaria officinalis*	1.8 - 5.0		
Green Crumbweed	*Chenopodium carinatum*	2.0 - 5.0		
Lesser Canary Grass (refer also Table 2)	*Phalaris minor*	3.0 - 5.0		
Liverseed Grass (refer also Table 2)	*Urochloa panicoides*	1.5 - 5.0		
Medics (annual)	*Medicago* spp.	1.0 - 5.0		
Milk Thistle	*Sonchus oleraceus*	2.0 - 5.0		
Mint Weed	*Salvia reflexa*	3.0 - 5.0		
New Zealand Spinach	*Tetragonia tetragoniodes*	2.0 - 5.0		
Patterson's Curse	*Echium plantagineum*	1.0 - 3.0	300	45
Peanuts	*Arachis hypogaea*	1.5 - 3.0		
Pigweed	*Portulaca oleracea*	3.0 - 5.0	500	75
Pinkburr	*Urena lobata*	2.0 - 5.0		
Potato Weed	*Galinsoga parviflora*			
Praire Grass (refer Note 1)	*Bromus unioloides*	4.0 - 5.0		
Prickly Lettuce	*Lactuca serriola*	3.0 - 5.0		
Red Natal Grass	*Rhynchelytrum repens*	2.0 - 5.0		
Ryegrass (annual)	*Lolium rigidum*			
Saffron Thistle	*Carthamus lanatus*	1.5 - 5.0		
St. Barnaby's Thistle	*Centaurea solstitialis*			
Sago Weed	*Plantago cunninghamii*	2.0 - 3.0	300	45
Scarlet Pimpernel	*Anagallis arvensis*	2.0 - 5.0	500	75
Setaria	*Setaria italica*			
Sheep Thistle	*Carduus tenuiflorus*	2.5 - 5.0		
Silver Grass	*Vulpia myuros*	2.0 - 5.0		
Sorghum/Sudax	*Sorghum bicolor*			
Square Weed	*Spermacoce latifolia*			
Stagger Weed	*Stachys arvensis*			
Star of Bethlehem	*Ipomoea quamoclit*			
Summer Grass	*Digitaria cillaris*			
Thickhead	*Crassocephalum crepidioides*	3.0 - 5.0		
Three Cornered Jack	*Emex australis*	2.0 - 5.0		
Tomato	*Lycopersicon esculentum*			

Table 1. Recommendations for weed control (except when referred to Table 2) – continued				
Common Name	**Scientific Name**	**Application Rates**		
		Boom or Directed Sprayer L/ha	**Handgun mL/100L**	**Knapsack mL/15L**
ANNUAL WEEDS – continued				
Turnip Weed	*Rapistrum rugosum*	3.0 - 5.0	500	75
Variegated Thistle (refer also Table 2)	*Silybum marianum*	2.5 - 5.0		
Wheat	*Triticum eastivum*	4.0 - 5.0		
Wild Carrot	*Daucus glochidiatus*	2.0 - 5.0		
Wild Gooseberry	*Physalis minima*			
Wild Mustard	*Sysimbrium orientale*			
Wild Oats (refer also Table 2)	*Avena* spp.	3.0 - 5.0		
Wild Radish	*Raphanus raphanistrum*	5.0		
Wire Weed (refer also Table 2)	*Polygonum aviculare*	1.5 - 5.0		
PERENNIAL WEEDS				
Blady Grass	*Imperata cylindrica*	3.0 - 4.0	400	60
Cape Tulip	*Homeria* spp.	2.0 - 3.0	300	45
Centro	*Centrosema pubescens*	1.0 - 5.0	500	75
Clover Glycine	*Glycine latrobeana*	1.0 - 3.0	300	45
Couch Grass	*Cynodon dactylon*	2.5 - 5.0	500	75
Cow Pea	*Vigna unguiculata*	1.0 - 3.0	300	45
Giant Sensitive Plant	*Mimosa invisa*	2.0 - 5.0	500	75
Greenleaf Desmodium	*Desmodium intortum*	1.0 - 3.0	300	45
Johnson Grass	*Sorghum halepense*	3.0 - 5.0	500	75
Panicum species	*Panicum* spp.	2.0 - 5.0		
Paspalum species	*Paspalum* spp.	3.0 - 5.0		
Perennial Bindweed	*Convolvulus arvensis*	2.0 - 3.0	300	45
Shamrock	*Oxalis corymbosa*	3.0		
Sida Weed (refer also Table 2)	*Sida retusa*	3.0 - 5.0	500	75
Silver Leaf Desmodium	*Desmodium uncinatum*	4.0 - 5.0		
Siratro	*Macroptilium atropurpureum*	1.0 - 3.0	300	45
Stink Grass	*Eragrostis cilianensis*	3.0 - 5.0	500	75
White Clover	*Trifolium repens*			
White Eye	*Richardia brasiliensis*			
Willow Herb	*Epilobium* spp.	4.0 - 5.0		

Notes:
1. Well-established clumps of Prairie Grass and Brome Grasses may only be suppressed at these rates. Follow-up treatments may be necessary to control re-growth.
2. Good control will be achieved on small and medium sized plants only in non-crop situation.

Table 2. For control of weeds in Commercial and Industrial areas, rights-of-way and other non-agricultural areas (when referred from Table 1).				
Common Name	**Scientific Name**	**Application Rates**		
		Boom or Directed Sprayer L/ha	**Handgun mL/100L**	**Knapsack mL/15L**
ANNUAL WEEDS				
Caltrop Burr	*Tribulus terrestris*	4.0 - 5.0	500	75
Dead nettle	*Lamium amplexicaule*	6.0	600	90
Lesser Canary Grass	*Phalaris minor*	4.0 - 6.0		
Liverseed Grass	*Urochloa panicoides*	1.5	150	23
Variegated Thistle	*Silybum marianum*	6.0	600	90
Wild Oats	*Avena* spp.	5.0 - 6.0		
Wireweed	*Polygonum aviculare*	2.0 - 5.0	500	75
PERENNIAL WEEDS				
Sida Weed	*Sida retusa*	4.0 - 5.0	500	75

GENERAL INSTRUCTIONS
EXONERATE® 200 SL Herbicide is a non-volatile herbicide with activity against many annual and perennial broadleaf weeds and grasses. EXONERATE® 200 SL is absorbed by plant foliage and green stems. It is not significantly translocated as an active herbicide throughout the plant, and therefore will only kill that part of a green plant that is contacted by spray. EXONERATE® 200 SL does not provide residual weed control. Visible symptoms of control appear in 3 - 7 days, but complete desiccation may take 20 - 30 days under cool conditions. Best results are achieved when application is made under good growing conditions. Application to weeds under stress (e.g. due to continuous severe frosts, dry or waterlogged conditions) should be avoided.

Soil fumigation / sterilisation
EXONERATE® 200 SL is metabolised (broken down) by microorganisms in the soil to become inactive. Soil fumigation or sterilisation will reduce the number of microorganisms present, thus slowing the breakdown of EXONERATE® 200 SL. As damage to transplants or seedlings may occur, it is not advisable to apply EXONERATE® 200 SL in conjunction with soil fumigation or sterilisation.

Plastic mulches
EXONERATE® 200 SL will remain active on inert surfaces such as plastic. Special care should be taken when applying EXONERATE® 200 SL over plastic mulches, as plant contact with the mulch after spraying may result in crop damage.

RESISTANT WEEDS WARNING
EXONERATE® 200 SL Herbicide is a member of the phosphinic acid group of herbicides.

GROUP **N** HERBICIDE

EXONERATE® 200 SL is an inhibitor of glutamine synthetase. For weed resistance management EXONERATE® 200 SL is a Group N herbicide. Some naturally occurring weed biotypes resistant to EXONERATE® 200 SL, and other Group N herbicides which inhibit glutamine synthetase, 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 EXONERATE® 200 SL or other Group N 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 EXONERATE® 200 SL to control resistant weeds.

EXPORT OF TREATED PRODUCE
Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with EXONERATE® 200 SL. If you are growing produce for export, please check with Adama Australia for the latest information on MRLs and import tolerances BEFORE using EXONERATE® 200 SL.

COMPATIBILITY
EXONERATE® 200 SL is compatible with most residual herbicides e.g. SIMANEX®, diuron, CAVALIER®, norfluazuron, and CAMEO®, and with WIPE-OUT® and LYNX®. The addition of a wetting agent or other adjuvant is generally not considered necessary, (refer to the Directions for Use table). However, benefit has been obtained using a wetting agent or adjuvant on hard-to-wet weeds when using water rates in excess of 500 L/ha. The rate is 25 mL/100 L of WETSPRAY®. For information on compatible wetting agents and adjuvants, contact your local Adama representative.

MIXING
EXONERATE® 200 SL mixes easily with water. Clean water should always be used for mixing with EXONERATE® 200 SL. Ensure that the spray tank is free of any residues of previous spray materials. Two-thirds fill the spray tank with clean water, and with agitator operating add the required amount of EXONERATE® 200 SL. Add other relevant compatible products. Top the tank up to the required volume with clean water with agitator running.

APPLICATION EQUIPMENT
Ground Sprayers
Aim to apply a thorough and even coverage of spray to the target plant. Dense stands of weeds should be thoroughly wetted with spray. Incomplete coverage may result in poor control. Equipment should be such that adequate coverage, penetration and volume of spray liquid can be achieved.

Boom or Directed Sprayer Equipment
EXONERATE® 200 SL should be applied at label rates (refer to specific column in the lists of weeds controlled) in sufficient water to give thorough coverage of weeds. It has been found that 300 - 500 L/ha has given good results under most weed conditions. Special care must be taken when using sprayer/slasher combination units not to cause dust and turbulence, which can carry spray into non-target areas.

Knapsack and Handgun Equipment
EXONERATE® 200 SL should be applied at label rates (refer to specific columns in the lists of weeds controlled) in adequate water to thoroughly wet the weeds being sprayed, i.e. 500 - 1000 L/ha. Dense stands will require up to 1000 L/ha of spray mixture, whereas less dense stands will require less water. High volume application using hollow-cone nozzles for hand spraying is recommended.

Controlled Droplet Application (CDA) Equipment
EXONERATE® 200 SL may be applied through CDA row spraying equipment fitted with a solid (impermeable) shroud or skirt, at rates as recommended for boom or directed sprayers (refer to specific column in the lists of weeds controlled), provided thorough spray coverage of weeds can be achieved. Apply preferably when weeds are less than 15 cm in height, with the equipment set up so that the spray dome only just touches the tops of the weeds. A total spray volume of 20 - 30 L/ha has been found to give good results. Do not mix residual herbicides or any spray adjuvants with EXONERATE® 200 SL when using CDA equipment.

Warning: Because the spray solution is highly concentrated particular care must be taken when using EXONERATE® 200 SL through CDA equipment to avoid contact of the spray solution with any part of the crop trunk or canopy. DO NOT apply EXONERATE® 200 SL through equipment fitted with bristle skirts. Particular care should be taken when using CDA equipment around green or uncalloused bark. Please refer to PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS.
CDA equipment must not be used for application in cherry orchards.

Sprayer cleanup
Clean all equipment after use by thoroughly flushing with water.

Aircraft
DO NOT apply by aircraft.

RE-ENTRY PERIOD
DO NOT allow entry into treated areas until the spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT
DO NOT contaminate streams, rivers or waterways with this product or the used container.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS
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. DO NOT apply on desirable foliage or allow spray to drift onto the foliage of desirable plants, trees or vines, as damage will occur. DO NOT allow product to contact green or uncalloused bark (such as on desirable young trees and vines) or cut, cracked, damaged or wounded tissue, where the affected surface is not adequately healed. EXONERATE® 200 SL may be used around desirable trees/vines less than two years old provided they are effectively shielded from spray and spray drift. DO NOT allow desirable plant foliage to contact any inert surface, such as plastic mulches, which have been treated with EXONERATE® 200 SL. DO NOT apply EXONERATE® 200 SL to recently fumigated or sterilised soil.

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

1 L, 5 L, 10 L, 20 L, 60 L, 100 L, 110 L Containers: 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 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 regulation. Empty containers and product should not be burnt.

1000 L Refillable Container: Empty contents fully into application equipment. Close all valves and return to point of sale. This container remains the property of Adama Australia.

SAFETY DIRECTIONS
Harmful if absorbed by skin contact or swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, elbow length PVC or nitrile gloves and face shield or goggles. Wash hands after use. 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.

SDS
Additional information is listed in the safety data sheet (SDS). A safety data sheet for EXONERATE® 200 SL is available from adama.com or call Customer Service on 1800 423 262.

CONDITIONS OF SALE: The use of EXONERATE® 200 SL 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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