

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Prolan[®] 500

Herbicide

ACTIVE CONSTITUENT: 500 g/L ORYZALIN

GROUP D HERBICIDE

For pre-emergent control of certain annual grasses and broadleaf weeds in non-bearing and bearing fruit and nut orchards, vineyards, nursery stock, ornamentals, amenity plantings, established and newly planted turf and industrial areas and rights of way as specified in the Directions for Use table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE OPENING OR USING

CONTENTS: 10L

APVMA Approval No.: 60335/119018



Sipcam Pacific Australia Pty Limited
Level 1, 191 Malop Street Geelong VICTORIA 3220

STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN. 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 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 container or product.

SAFETY DIRECTIONS

Avoid contact with eyes and skin. Do not inhale spray mist.

FIRST AID

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

SAFETY DATA SHEET

For further information, refer to the Safety Data Sheet (SDS) which is available from the supplier or from our web site, www.sipcam.com.au.

NOTICE TO BUYER

This product must be used in accordance with the directions for use. Where this product is not a good of a kind ordinarily acquired for personal, domestic or household use or consumption under the Australian Consumer Law, Sipcam's liability for any direct, indirect or consequential loss which you incur, including, without limitation, loss or damage to crop, loss of equipment, property damage, personal injury or death is limited, at Sipcam's option, to the replacement of the product or the supply of an equivalent product. By opening this package, you agree to be bound by these terms. If you do not agree to these terms, please return the entire unopened package intact to Sipcam or the place in which you purchased this product for a full refund

G.H.S. STATEMENTS

HAZARDS H317: May cause an allergic skin reaction.

PREVENTION P280: Wear protective gloves, protective clothing.

RESPONSE P302+P352: IF ON SKIN: Wash with plenty of soap and water. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P363: Wash contaminated clothing before re-use.

This product is NOT classified as a Dangerous Good under the Australian Code for the transport of Dangerous Goods by road and rail.

Limited Quantity value of 500L for this class of product.

For specialist advice in emergency only,
call **1800 033 111** all hours, Australia wide



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**DIRECTIONS FOR USE
RESTRAINTS**

- DO NOT** use on newly seeded turf areas.
- DO NOT** use on turf under stress.
- DO NOT** use on Bent grass or Wintergrass.
- DO NOT** use on golf greens or bowling greens.
- DO NOT** apply if forecast heavy rain or storms are likely to cause runoff.
- DO NOT** irrigate to the point of runoff.

SPRAY DRIFT RESTRAINTS

DO NOT apply Prolan 500 Herbicide by fixed wing aircraft unless wind speed is more than 3 kilometres per hour and less than 15 km/hr as measured at the application site and/or the air temperature is above 30°C, or when the wind is blowing towards susceptible crops.

Aquatic environment

DO NOT apply if there are aquatic and wetland areas including aquacultural ponds downwind from the application area and within the **mandatory no-spray zones** shown in Table A below.

Table A- No-Spray Zones for Protection of the Aquatic Environment		
FOR AERIAL APPLICATION		
Wind Speed Range at Time of Application	Downwind Mandatory No-Spray Zone	
	Fixed-Wing	Helicopter
from 3 to 8 kilometres per hour	400 m	250 m
from 8 to 14 kilometres per hour	650 m	350 m
from 14 to 20 kilometres per hour	*	450 m

*Not permitted for fixed wing as this is beyond the model capability to model downwind spray zone of >800 m at the highest wind speed.

Terrestrial environment

DO NOT apply if there are non-target vegetation or animal habitat downwind from the application area and within the mandatory no-spray zones shown in Table B below.

Table B – No-Spray Zones for Protection of the Terrestrial Environment		
FOR AERIAL APPLICATION		
Wind Speed Range at time of Application	Downwind Mandatory No-Spray Zone	
	Fixed-Wing	Helicopter
from 3 to 8 kilometres per hour	400 m	250 m
from 8 to 14 kilometres per hour	600 m	350 m
from 14 to 20 kilometres per hour	*	400 m

*Not permitted for fixed wing as this is beyond the model capability to model downwind spray zone of >800 m at the highest wind speed.

Crop Group				Weeds Controlled	Rate /ha	Critical Comments
Banana ¹				Grasses: Barnyard Guinea grass Love grass Paradoxa grass Pigeon grass Spiny burr grass (Gentle Annie / Innocent Weed) Summer grass (Crabgrass ³)	Short term control (up to 4 months) 4.5L	See GENERAL INSTRUCTIONS DO NOT apply by aircraft or through any type of irrigation equipment.
Grape ²						
Pome Fruit	Apple	Pear	(see also non- bearing fruits)	Paradoxa grass Pigeon grass Spiny burr grass (Gentle Annie / Innocent Weed) Summer grass (Crabgrass ³)	Long term control (6-8 months) 6.8L	¹ DO NOT use as a pre-emergent at the time of planting with tissue culture banana planting material.
Stonefruit	Apricot	Peach	Nectarine			
	Cherry	Plum & prune		Summer grass (Crabgrass ³)	Long term control (6-8 months) 6.8L	² Western Australia only: Vineyards on medium loam or heavier soil types, heavily infested with crabgrass may be sprayed with up to 9.9L/ha of Prolan 500 and together with pome fruit and all Prunus species on these soils spraying can be immediately after transplanting from nurseries providing buds are still dormant and no functional leaves are present.
Citrus	Grapefruit	Orange	(see also non- bearing fruits)			
Nuts	Almonds	Pecan	Walnut	Broadleaf Weeds: Deadnettle Fathen Fumitory Portulaca (Pigweed) Sowthistle Wireweed (Hogweed)	Long term control (6-8 months) 6.8L	³ Western Australia only: Apply early in summer for crabgrass (<i>Digitaria sanguinalis</i>) control and incorporation with overhead irrigation.
Non- bearing berryfruits	Blackberry	Currant	Raspberry			
	Blueberry	Gooseberry		Brassica species: ⁴ Blackberry nightshade Caltrop Paddy melon Silverleaf nightshade	Long term control (6-8 months) 6.8L	⁴ Control of these weeds may range from poor to excellent depending upon soil temperature, time of germination, depth of weed seed in the soil and amount and timing of soil moisture.
	Boysenberry	Loganberry				
Non- bearing – fruits including nursery stock of the following:	Avocado	Lemon	Olive	Brassica species: ⁴ Blackberry nightshade Caltrop Paddy melon Silverleaf nightshade	Long term control (6-8 months) 6.8L	⁴ Control of these weeds may range from poor to excellent depending upon soil temperature, time of germination, depth of weed seed in the soil and amount and timing of soil moisture.
	Custard apple	Litchi	Passionfruit			
	Feijoa	Mandarin	Pawpaw	Brassica species: ⁴ Blackberry nightshade Caltrop Paddy melon Silverleaf nightshade	Long term control (6-8 months) 6.8L	⁴ Control of these weeds may range from poor to excellent depending upon soil temperature, time of germination, depth of weed seed in the soil and amount and timing of soil moisture.
	Guava	Mango	Persimmon			
	Kiwifruit	Nashi	Rambutan	Brassica species: ⁴ Blackberry nightshade Caltrop Paddy melon Silverleaf nightshade	Long term control (6-8 months) 6.8L	⁴ Control of these weeds may range from poor to excellent depending upon soil temperature, time of germination, depth of weed seed in the soil and amount and timing of soil moisture.
Nursery stock and / or seedling stage conifers including species of the following genus:	<i>Abies</i> (fir trees)	<i>Picea</i> (Spruces)	<i>Pseudotsuga menziessii</i> (Douglas fir or Oregon pine)			
	<i>Chamaecyparis</i> (Lawson and False cypress)	<i>Pinus</i> (pine)	<i>Sequoia</i>	Brassica species: ⁴ Blackberry nightshade Caltrop Paddy melon Silverleaf nightshade	Long term control (6-8 months) 6.8L	⁴ Control of these weeds may range from poor to excellent depending upon soil temperature, time of germination, depth of weed seed in the soil and amount and timing of soil moisture.
	<i>Cryptomeria cupressus</i> (cypress)	<i>Platycladus orientalis</i> (oriental arborvitae)	<i>Taxus cuspidata</i> (Japanese yew)			
	<i>Juniperus</i> (Junipers)	<i>Podocarpus</i>	<i>Thuja</i>	Brassica species: ⁴ Blackberry nightshade Caltrop Paddy melon Silverleaf nightshade	Long term control (6-8 months) 6.8L	⁴ Control of these weeds may range from poor to excellent depending upon soil temperature, time of germination, depth of weed seed in the soil and amount and timing of soil moisture.

Crop Group	Weeds Controlled	Rate /ha	Critical Comments
<p>Nursery stock, ornamentals and amenity plantings comprising of the following:</p> <p>Australian native species of the genus: <i>Acacia</i> (wattles) <i>Casuarina</i> (Oaks and sheoak) <i>Grevilla</i> <i>Agonis</i> (WA) <i>and sheoak</i> <i>Hakea</i> peppermint, <i>Chamelaucium</i> <i>Hardenbergia</i> Willow (or Honey) <i>uncinatum</i> (sarsaparilla) (myrtle) (Geraldton wax) <i>Allocasuarina</i> <i>Hibbertia</i> <i>Banksia</i> <i>Clematis</i> <i>Kennedia</i> <i>Boronia</i> <i>Correa</i> <i>Lechenaultia</i> <i>Callistemon</i> <i>Eriostemon</i> <i>Lptospermum</i> (bottlebrush) <i>myoporoides</i> and <i>Callitris</i> (Cypress (Wax flower) Melaleuca (tea pine) trees) <i>Calytrix</i> <i>Eucalyptus</i> <i>Prostanthera</i> Cassia (mintbush) <i>Thryptomene</i> <i>Westringia</i></p> <p>Exotic species of the genus: <i>Abelia</i> <i>Fuschia</i> <i>Parahebe</i> <i>Acalypha</i> <i>Felicia</i> <i>Philadelphus</i> <i>Acer</i> (maples) <i>Gardenia</i> <i>Philodendron</i> <i>Arctostaphylos</i> <i>Ginko</i> <i>Phoenix</i> <i>Ardisia</i> <i>Hibiscus</i> <i>Photinia</i> <i>Azalea</i> <i>Ilex</i> <i>Pieris</i> <i>Baccharis</i> <i>Jasminum</i> <i>Pittosporum</i> (groundsel bush) <i>Justicia</i> <i>Populus</i> (poplar) <i>Bauhinia</i> <i>Kalmia</i> <i>Prunus</i> <i>Berberis</i> (barberry) <i>Koelreuteria</i> <i>Pseudopanax</i> <i>Betula</i> (birch tree) <i>Lagenaria</i> <i>Pyracantha</i> <i>Bignonia</i> <i>Lagerstroemia</i> <i>Quercus</i> <i>Buxus</i> (box) <i>Lantana</i> <i>Raphiolepis</i> <i>Calluna</i> <i>Lavendula</i> (lavender) <i>Rhododendron</i> <i>Camellia</i> <i>Leucodendron</i> <i>Rosa</i> (roses) <i>Ceanothus</i> <i>Leucothoe</i> <i>Rosemarinus</i> <i>Cistus</i> <i>Ligustrum</i> (rosemary) <i>Clyostoma</i> <i>Liquidambar</i> <i>Russelia</i> <i>Coleonema</i> <i>Liriope</i> <i>Spiraea</i> <i>Coprosma</i> <i>Lonicera</i> (honeysuckle) <i>Syringa</i> <i>Cotoneaster</i> <i>Magnolia</i> <i>Syzygium</i> <i>Cuphea</i> <i>Mahonia</i> <i>Taxus</i> <i>Cytisus</i> (broom) <i>Malus</i> <i>Trachelospermum</i> <i>Dodonea</i> (hopbush) <i>Metrosideros</i> <i>(Rhymscospermum)</i> <i>Erica</i> (heath) <i>Monstera</i> <i>Umbellularia</i> <i>Escallonia</i> <i>Myrtus</i> <i>Viburnum</i> <i>Euonymus</i> <i>Nandina</i> <i>Washintonia</i> <i>Eutaxia</i> <i>Nerium</i> (oleander) <i>Weigela</i> <i>Fatsyhedera</i> <i>Osmanthus</i> <i>Xylosma</i> <i>Yucca</i></p>	<p>Grasses: Barnyard Guinea grass Love grass Pigeon grass Paradoxa grass Spiny burr grass (Gentle Annie / Innocent Weed) Summer grass (Crabgrass ³)</p> <p>Broadleaf Weeds: Deadnettle Fathen Fumitory Portulaca (Pigweed) Sowthistle Wireweed (Hogweed)</p> <p>Brassica species: ⁴ Blackberry nightshade Caltrop Paddy melon Silverleaf nightshade</p>	<p>Short term control (up to 4 months) 4.5L</p> <p>Long term control (6-8 months) 6.8L</p>	<p>See GENERAL INSTRUCTIONS DO NOT apply by aircraft or through any type of irrigation equipment.</p> <p>³ Western Australia only: Apply early in summer for crabgrass (<i>Digitaria sanguinalis</i>) control and incorporation with overhead irrigation.</p> <p>⁴ Control of these weeds may range from poor to excellent depending upon soil temperature, time of germination, depth of weed seed in the soil and amount and timing of soil moisture.</p>
<p>Tea-Tree Oil plantations ⁵</p>	<p>Tea-Tree (<i>Melaleuca alternifolia</i>)</p>	<p>6.8L</p>	<p>⁵ Apply at time of planting and soon after harvesting. For Ground Application: Apply in 200-450 L water /ha. For Aerial Application: Apply in 30-50L water/ha. Use only closed mixing/loading systems. See GENERAL INSTRUCTIONS for further instructions.</p>

GENERAL INSTRUCTIONS

Prolan 500 Herbicide is a pre-emergent surface applied herbicide, which will control the specified annual grasses and broadleaf weeds in the situations listed.

Soil Preparation: Areas to be treated should be free of established weeds. Remove or thoroughly mix trash (weed residue, prunings etc.) into the soil before applying the product.

Soil Activation: Moisture in the form of rain or sprinkler irrigation (10-15mm) is required within 21 days of application to activate the product otherwise efficacy may be reduced. If moisture is not received within the period, incorporate the product into the top 2.5cm of soil (excluding established turf and newly planted turf).

Turf: Mechanical incorporation is not possible. Moisture in the form of rain or sprinkler irrigation (10-15mm) is therefore required within 21 days of application to activate the product otherwise efficacy may be reduced.

MIXING

The required amount of Prolan 500 Herbicide should be added to half-full spray tank and agitated well during completion of filling. Do not leave spray solutions to stand overnight.

APPLICATION

Ground Application/Boomspray: Apply Prolan 500 Herbicide in 200 to 450 litres water per hectare. Apply uniformly, especially within the dripline of trees and shrubs, so that application above label rates does not occur. Use a properly calibrated low pressure (170 to 340 kPa) herbicide sprayer. Provide good by-pass or other agitation of the spray suspension in the tank before and during application. Soil treated with this product may be shallow cultivated without loss of herbicidal activity.

Turf: Ground Application: Spray nozzles should be uniformly spaced and of the same size, and should provide accurate and uniform application. Use spray nozzles that produce a MEDIUM spray quality. To ensure accuracy, calibrate sprayer before use and calibrate frequently. Apply at a volume 200 to 450 L of water per hectare. Higher volumes should be used for severe weed infestations to ensure adequate spray coverage.

Good even coverage with the spray is essential for optimum weed control. Observe sprayer nozzles frequently during the spraying operation to ensure that the spray pattern is uniform. Avoid overlapping of spray runs. Avoid application under conditions when uniform coverage cannot be obtained or when spray drift may occur.

DO NOT apply aurally (except Tea-Tree plantations) or through any type of irrigation system or equipment.

When spraying avoid overlapping, and shut off spray booms while starting, turning slowing and when stopped. Neglecting these procedures will cause higher rates of application resulting in crop damage. Delay spraying if heavy rain is expected within a few hours.

Tea-Tree: Aerial Application: Apply by fixed wing aircraft or helicopter using only closed mixing/loading systems. Use accurately calibrated equipment to deliver 30-50L water/ha. **DO NOT** apply with smaller than coarse spray droplets according to the ASABE S572 definition for standard nozzles.

INSTRUCTIONS TO AVOID SPRAY DRIFT

DO NOT allow spray to drift onto adjacent turf sites or ornamental plants as even small amounts may injure sensitive plants. When drift may be a problem, take steps to reduce spray drift including:

DO NOT spray if wind is greater than 10 km/hr or if winds are gusting.

Use extreme caution when conditions are favourable for drift, i.e. high temperatures and low relative humidity, especially when sensitive plants are located nearby. All plants not listed as turf species, under Crop section on this label should be considered as sensitive plants. If sensitive plants are downwind, extreme caution must be used under all conditions. Drift from applications of this herbicide is likely to result in damage to sensitive plants adjacent to the treatment site.

Ground Application:

- **DO NOT** apply unless there is a 30 metre downwind buffer distance between the treated areas and native vegetation.
- **DO NOT** apply unless there is a 10 metre downwind buffer distance between the area being sprayed and natural water bodies.

COMPATIBILITY

Prolan 500 Herbicide is compatible with paraquat, glyphosate, oxyfluorfen and simazine.

RESISTANCE WEEDS WARNING

GROUP	D	HERBICIDE
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Prolan 500 Herbicide is a member of the dinitroaniline group of herbicides. Prolan 500 Herbicide has the inhibition of tubulin formation mode of action. For weed resistance management, Prolan 500 Herbicide is a Group D herbicide. Some naturally occurring weed biotypes resistant to the product and other Group D 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 Prolan 500 Herbicide or other Group D herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Sipcam Pacific Australia Pty Ltd accepts no liability for any losses that may result from the failure of Prolan 500 Herbicide 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 Sipcam representative.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

When applying spray, avoid contact with leaves and other parts of trees and vines. Do not apply under weather conditions or from spraying equipment that may result in chemical movement by spray drift or storm run-off drift onto nearby susceptible plants/crops, cropping lands or pastures.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. Do NOT contaminate wetlands or watercourses with product or used containers.

STORAGE AND DISPOSAL

Keep out of reach of children.

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 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 container or product.

SAFETY DIRECTIONS

Avoid contact with eyes and skin. Do not inhale spray mist.

FIRST AID

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

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