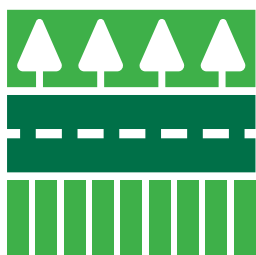


READ SAFETY DIRECTIONS BEFORE OPENING OR USING



Galigan® 500 SC

Herbicide

ACTIVE CONSTITUENT:

500 g/L OXYFLUORFEN

GROUP **14** HERBICIDE

Crops/Situations: Duboisia, forestry, industrial areas, non-crop situations, ornamental trees, roadside, rail and rights-of-way as per the Directions for Use.

Controls: Certain grasses and broadleaf weeds as stated in the Directions for Use table.

Formulation type
Suspension
Concentrate



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CONTENTS: 1 L - 1000 L

DIRECTIONS FOR USE

RESTRAINTS

For PROFESSIONAL use only.

DO NOT disturb weeds by cultivation or sowing for 1 day following application to annual weeds and 7 days for perennial weeds to ensure herbicide absorption, unless specified in the CRITICAL COMMENTS.

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 of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone table/s below provide guidance but may not be sufficient in all situations. 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.

DO NOT apply by a boom sprayer unless the following requirements are met:

- Spray droplets not smaller than a MEDIUM spray droplet size category.

DO NOT apply by aircraft unless the following requirements are met:

- Spray droplets not smaller than a MEDIUM spray droplet size category.
- For maximum release heights above the target canopy of 3 m or 25% of wingspan or 25% of rotor diameter whichever is the greatest, minimum distances between the application site and downwind sensitive areas (see Buffer zones for aircraft below).

Buffer zones for aircraft

Type of aircraft	Mandatory downwind buffer zones
	Bystander areas
Fixed Wing	20 metres
Helicopter	25 metres

FORESTRY USES FOR APPLICATION BY HELICOPTER AND ACCU-FLO® NOZZLE, 0.020 ORIFICE OR LARGER

DO NOT apply by fixed wing aircraft.

DO NOT apply by helicopter unless the following requirements are met:

- Accu-Flo nozzles with orifice size 0.020 or larger are used
- Flying speed 102 km/hr (55 knots) or slower
- Release heights 15 metres or lower above the target canopy
- Minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zone' section of the following table titled 'Buffer zones for forestry uses by helicopter application') are observed.

Buffer zones for forestry uses by helicopter application

Application rate	Maximum release height above the target canopy	Wind speed range at time of application	Mandatory downwind buffer zones
			Bystander areas
Up to 1.9 L/ha	15 meters	3 to 7 kilometres per hour	0 meters
		7 to 14 kilometres per hour	20 metres
Up to 1.9 L/ha	10 meters	3 to 7 kilometres per hour	0 meters
		7 to 14 kilometres per hour	10 metres

DIRECTIONS FOR USE

GALIGAN® 500 SC Herbicide can be used on weed-free soil to prevent germination of a wide variety of weeds or it can be applied to existing weeds at seedling stage especially with a tank mix partner to increase the variety of weeds controlled and/or the length of residual control. GALIGAN® 500 SC Herbicide can also be added at a low rate as a "spike" to glyphosate or paraquat and diquat/paraquat herbicides to improve knockdown.

1. GALIGAN® 500 SC HERBICIDE APPLIED AS "SPIKE" WITH GLYPHOSATE OR WITH EITHER PARAQUAT OR A DIQUAT/PARAQUAT MIXTURE.

NOTE: due to the large number of disparate ornamental trees, not all species/varieties or situations have been fully evaluated for crop safety. Under certain situations, application methods, application rates and weather conditions, phytotoxicity may occur in susceptible ornamental trees from an application of GALIGAN® 500 SC. Users must treat a small number of test plants or a small area prior to whole crop treatment and monitor any phytotoxic effects.

SITUATION	FOR WEEDS CONTROLLED & TIME OF APPLICATION	RATE/HA of GALIGAN® 500 SC Herbicide	CRITICAL COMMENTS
Industrial areas, Non-crop Situations, Ornamental trees, Roadside, Rail and Rights-of-way	Refer to label of the glyphosate product (such as Wipe-out® Bio, Wipe-out 450, Wipe-out Pro)	36 mL plus a glyphosate product at its recommended label rate	Addition of GALIGAN® 500 SC to glyphosate products will improve knockdown and increase the speed at which treated weeds develop visible symptoms of phytotoxicity (compared to results achieved with glyphosate applied alone) and give control of annual nettles, (<i>Urtica</i> spp.), barley grass and small-flowered mallow. For rates of glyphosate, refer to the appropriate label. Read and follow all label directions. <u>Ornamental trees:</u> DO NOT apply the tank mix of glyphosate and GALIGAN® 500 SC near trees or vines less than 3 years old unless they are effectively shielded from spray and spray drift.
Ornamental trees	Refer to Weeds Controlled list and Spraytop® or paraquat + diquat labels	120 mL plus Spraytop® or paraquat + diquat product at recommended label rate	Addition of GALIGAN® 500 SC in a tank mix with Spraytop® or paraquat + diquat will improve control of small flowered mallow, evening primrose and other weeds sensitive to GALIGAN® 500 SC. For the rate of Spraytop® or paraquat + diquat, refer to the appropriate label. Read and follow all label directions.

2. GALIGAN® 500 SC HERBICIDE APPLIED TO WEED-FREE SOIL OR WEEDS AT SEEDLING STAGE.

CROP OR SITUATION	WEEDS CONTROLLED	WEED or CROP STAGE	RATE/HA	CRITICAL COMMENTS
Duboisia (after transplanting of young seedlings or after harvest of mature plants)	Refer to Weeds Controlled list (best results are achieved when applied to moist soil free of weeds)	Weed free soil	1.9 - 3.8 L	Use the higher rate where longer residual control (up to 6 months) is required. An "over-the-top" application will be tolerated.
		Weeds at the 4 to 6 true leaf stage		Recently germinated small seedling grasses and broadleaf weeds (4 to 6 true leaves) will be controlled with these rates. Established larger weeds must be eliminated by mechanical or chemical means prior to application of GALIGAN® 500 SC. Add a non-ionic surfactant e.g. BS1000 at its recommended rate to enhance activity.

CROP OR SITUATION	WEEDS CONTROLLED	WEED or CROP STAGE	RATE/HA	CRITICAL COMMENTS
Forestry Plantations: <i>Eucalyptus</i> spp. and <i>Pinus</i> spp. (either before or preferably within 4 weeks of transplanting), Industrial areas, Non-crop Situations, Roadside, Rail and Rights-of-way	Refer to Weeds Controlled list	Weed free soil (either before or preferably within 4 weeks of transplanting) Weeds at the 4 to 6 true leaf stage	1.5 – 1.9 L	Under weed-free conditions, apply as a directed or “over-the-top” spray. Disturbance of the herbicide barrier on the soil surface at transplantation may reduce the length of weed control. If weed seedlings are present, apply as an “over-the-top” spray. In either situation, use the higher rate for longer residual control. GALIGAN® 500 SC can be applied in a tank mix with simazine to extend the spectrum and length of weed control. DO NOT use this tank mix in Eucalyptus plantations grown on sands, with no clay or organic matter. The likelihood of foliar damage to trees (especially eucalypts) will increase if applied to foliage that has not hardened off and/or if the temperature exceeds 20 C. However, GALIGAN® 500 SC is generally regarded as safe to commonly planted forestry species but the sensitivity of less common species should be tested on small areas before a large-scale application is made.
Forestry and ornamental trees, Industrial areas, Non-crop Situations, Roadside, Rail and Rights-of-way.	Broadleaf weeds and grasses	Weeds at the 4 to 6 true leaf stage	2 L or 2 mL/ 10 m ²	When applying as a post-plant spray, ensure spray is directed to the base of desired plant, or the plants are protected. Do not apply under hot or windy conditions.

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

Weeds Controlled List:

BEFORE GERMINATION		SEEDLINGS
Amsinckia (<i>Amsinckia</i> spp.)	Pigweed (<i>Portulaca oleracea</i>)	Amsinckia (<i>Amsinckia</i> spp.)
Barley grass (<i>Hordeum leporinum</i>)	Prickly lettuce (<i>Lactuca</i> spp.)	Bellvine (<i>Ipomoea</i> spp.)
Barnyard grass (<i>Echinochloa</i> spp.)	Red Natal grass (<i>Rhynchelytrum repens</i>)	Capeweed (<i>Arctotheca calendula</i>)
Blackberry nightshade (<i>Solanum nigrum</i>)	Redshank (<i>Amaranthus cruentus</i>)	Common cotula (<i>Cotula australis</i>)
Bladder ketmia (<i>Hibiscus trionum</i>)	Ryegrass (<i>Lolium</i> spp.)	Crowsfoot grass (<i>Eleusine indica</i>)
Burrgrass (<i>Cenchrus australis</i>)	Sesbania pea (<i>Sesbania cannabina</i>)	Deadnettle (<i>Lamium amplexicaule</i>)
Caltrop (<i>Tribulus terrestris</i>)	Shepherd’s purse (<i>Capsella bursa-pastoris</i>)	Groundsel (<i>Senecio vulgaris</i>)
Capeweed (<i>Arctotheca calendula</i>)	Small flowered mallow (<i>Malva parviflora</i>)	Liverseed grass (<i>Urochloa panicoides</i>)
Chickweed (<i>Stellaria media</i>)	Soursob (<i>Oxalis pes-caprae</i>)	Pigweed (<i>Portulaca oleracea</i>)
Crowsfoot grass (<i>Eleusine indica</i>)	Sow thistle (<i>Sonchus oleraceus</i>)	Potato weed (<i>Galinsoga parviflora</i>)
Deadnettle (<i>Lamium amplexicaule</i>)	Starburr (<i>Acanthospermum hispidum</i>)	Redshank (<i>Amaranthus cruentus</i>)
Fat hen (<i>Chenopodium album</i>)	Stinkgrass (<i>Eragrostis ciliaris</i>)	Shepherd’s purse (<i>Capsella bursa-pastoris</i>)
Feathertop Rhodes grass (<i>Chloris virgata</i>) [^]	Summer grass (<i>Digitaria</i> spp.)	Sow thistle (<i>Sonchus oleraceus</i>)
Giant pigweed (<i>Trianthema portulacastrum</i>)	Thornapple (<i>Datura stramonium</i>)	Small flowered mallow (<i>Malva parviflora</i>) [*]
Liverseed grass (<i>Urochloa panicoides</i>)	White eye (<i>Richardia brasiliensis</i>)	Stinging nettle (<i>Urtica urens</i>)
Lovegrass (<i>Eragrostis</i> spp.)	Wild mustard (<i>Sisymbrium</i> spp.)	Stinkgrass (<i>Eragrostis ciliaris</i>)
Pigeon grass (<i>Setaria</i> spp.)	Wild radish (<i>Raphanus raphanistrum</i>)	Wild radish (<i>Raphanus raphanistrum</i>)
	Wireweed/Hogweed (<i>Polygonum aviculare</i>)	

* When mixed with glyphosate product at its recommended rate

[^] Refer to residual control section prior to use for information on recommended rates for Feathertop Rhodes grass

WITHHOLDING PERIOD

Grazing: DO NOT ALLOW LIVESTOCK TO GRAZE TREATED WEEDS.

GENERAL INSTRUCTIONS

GALIGAN® 500 SC is a selective herbicide for the control of certain annual grasses and broadleaf weeds in duboisia, *Eucalyptus*, *Pinus* spp. and other forestry trees and in other non-crop situations applied either to weed free soil or to the 4-6 true leaf stage.

GALIGAN® 500 SC applied to well prepared, weed free soil should not be disturbed or incorporated after application. Weed control for up to 6 months can be expected with high label rates, but spot treatment of escape weeds or perennial grasses may be necessary with knockdown herbicides. When GALIGAN® 500 SC is applied to seedling weeds at the 4 to 6 leaf stage, a non-ionic surfactant such as BS1000 should be added at recommended rates to improve activity, where suggested in the CRITICAL COMMENTS. GALIGAN® 500 SC can also be used at low rates as a "spike" to improve the weed spectrum of knockdown herbicides such as glyphosate and paraquat or diquat/paraquat mixtures.

TIMING

Residual Control

For optimum residual weed control, GALIGAN® 500 SC Herbicide should be applied to the soil surface prior to weed emergence after all other agricultural operations, such as mechanical cultivation and re-shaping of irrigation furrows, have been completed. The area should be left undisturbed during the time period of desired weed control. When applied to seedling weeds, they should be young and actively growing. Weed control for up to 6 months can be expected with high label rates, but spot treatment of escape or perennial grasses may be necessary with knockdown herbicides.

When targeting Feathertop Rhodes grass, higher rates should be used such as 1.5 to 1.9 L/ha in relevant situations.

Post-emergence weed control

For optimum post-emergence weed control, GALIGAN® 500 SC + glyphosate, paraquat or paraquat/diquat tank mixes should be applied to small seedling weeds up to 4-6 true leaf stage. Use of a non-ionic surfactant such as BS1000 is recommended to improve activity. Weeds should be actively growing and free from environmental stress (drought, cold, insect attack, nutrient deficiency). Cultivation after treatment and prior to or at planting is beneficial for final fallow weed control.

MIXING

Shake well before use. When using GALIGAN® 500 SC alone, fill the spray tank at least 1/3 full with clean water and add the recommended amount of GALIGAN® 500 SC while the pump and agitator are running, then complete filling the spray tank. A non-ionic surfactant, if required by label directions, should be added near the end of the filling process to minimize foaming. If tank mixing with Oryzalin, add the product to a 1/3 filled tank and then add GALIGAN® 500 SC during the filling operation. Maintain agitation during mixing and until spraying is completed. When tank mixing with glyphosate formulations, paraquat, or paraquat/diquat, add this after GALIGAN® 500 SC during the filling operation.

GALIGAN® 500 SC Herbicide + Glyphosate tank mixes

Ensure thorough agitation when mixing, filling the spray tank and during application, irrespective of glyphosate formulation used. Follow recommended order and directions for tank mixing GALIGAN® 500 SC and glyphosate. Use all spray mix immediately after preparation.

- DO NOT tank mix GALIGAN® 500 SC and glyphosate without agitation.
- DO NOT allow mix to stand unagitated.
- DO NOT store GALIGAN® 500 SC and glyphosate tank mixes.
- DO NOT mix other agrochemical products with GALIGAN® 500 SC and Wipe-Out® tank mixtures.

APPLICATION

Spray equipment should be calibrated carefully before use. GALIGAN® 500 SC should be applied uniformly with an accurately calibrated, low pressure herbicide sprayer, as a directed treatment to the base of tree and vine crops using flat fan or hollow cone nozzles. Complete coverage of seedling weeds is required for maximum knockdown effect. Ensure both weed foliage and the soil surface area sprayed.

Tank mixtures of 36 mL/ha of GALIGAN® 500 SC with glyphosate herbicides should be applied in 30 to 200 litres spray volume per hectare. For maximum residual control GALIGAN® 500 SC should NOT be incorporated or disturbed after application.

Ground application

Apply using a vehicle mounted boom, calibrate to deliver a MEDIUM droplet size, using water volume of 250 to 500 litres per hectare for bare soil or 100 to 1350 litres per hectare when seedling weeds (4 to 6 leaf stage) are treated. Use the higher volumes where weed density is high.

Aerial application

For aerial application a spray volume of 100 L of water is recommended. Engineering Controls for Duboisia only: Closed mixing and loading systems must be used when applying with aerial equipment.

CROP SAFETY

Duboisia seedlings and mature plants will tolerate "over-the-top" applications of GALIGAN® 500 SC.

COMPATIBILITY

GALIGAN® 500 SC Herbicide is compatible with Wipe-out® 450, Wipe-out® Pro or Wipe-out® Bio (with agitation), Spraytop®, diquat, paraquat + diquat, Oryzalin, and Exonerate® 200 SL.

RESISTANCE WEEDS WARNING

GALIGAN® 500 SC Herbicide is a member of the diphenyl ether group of herbicides.

GROUP	14	HERBICIDE
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The mode of action of GALIGAN® 500 SC is to inhibit protoporphyrinogen oxidase. For herbicide resistance management, GALIGAN® 500 SC is a Group 14 herbicide. Some naturally-occurring weed biotypes resistant to GALIGAN® 500 SC and other Group 14 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 weeds will not be controlled by GALIGAN® 500 SC or other Group 14 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 GALIGAN® 500 SC Herbicide to control resistant weeds.

PRECAUTIONS

Re-entry periods

DO NOT allow entry into 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.

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.

PROTECTION OF LIVESTOCK

Use with care when applying in areas frequented by stock.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

This product is highly toxic to wildlife and fish. DO NOT contaminate streams, rivers or waterways with the chemical or used containers. Use care when applying in areas frequented by wildlife or adjacent to any body of water. DO NOT apply when weather conditions favour drift from target areas.

STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN

Store in the closed, original container in a cool, well-ventilated area. Store above 5°C. DO NOT store for prolonged periods in direct sunlight. DO NOT store near food, feedstuffs, fertilisers and seeds. 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 the relevant Local, State or Territory government regulations. Do not burn empty containers or product.

For refillable containers (1000 L), empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage. This container remains the property of Adama Australia

110L (Mini-bulk Returnable Container)

DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the container 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 container have been used, please return the container to the point of purchase. The container remains the property of Adama Australia.

SMALL SPILL MANAGEMENT

Wear protective equipment (see SAFETY DIRECTIONS section). 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 as above, the wash liquid for disposal.

SAFETY DIRECTIONS

May irritate the eyes and skin. Avoid contact with eyes and skin. When using together with other products, consult their label safety directions. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow length chemical resistant gloves. In addition, when preparing spray for backpack and airblast equipment wear cotton overalls, over normal clothing buttoned to the neck and wrist. If applying by backpack and open-cab airblast equipment, wear cotton overalls, over normal clothing buttoned to the neck and wrist and elbow-length chemical resistant gloves. If applying by boom spray and low pressure hand wand wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow length chemical resistant 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 13 11 26.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for GALIGAN® 500 SC Herbicide is available from at adama.com or Call Customer Service on 1800 423 262.

CONDITIONS OF SALE: The use of GALIGAN® 500 SC 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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