

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



Cavalier®

Herbicide

ACTIVE CONSTITUENT: 240 g/L OXYFLUORFEN

SOLVENTS: 606 g/L LIQUID HYDROCARBONS

108 g/L N-METHYL PYRROLIDONE

For selective weed control of broadleaf weeds and some grasses
as specified in the Directions for Use table.

DIRECTIONS FOR USE:

CROP/SITUATION	WEEDS CONTROLLED	TIME OF APPLICATION	RATE	CRITICAL COMMENTS
Treefruit, nuts and vines not less than 3 years old DORMANT APPLICATION Peaches, plums, apricots, almonds, grape vines, apples, pears, macadamias, pecans, walnuts	Refer to Weeds Controlled list	Weed free soil	3 or 4 L/ha	DO NOT apply CAVALIER once bud swell has occurred. Apply to freshly cultivated weed free soil. Use the higher rate when longer residual control is required (up to 4 months). Where grass weeds are expected to be a major problem, or when control of a wider weed spectrum is required, mix the lower rate with 4-5 L Surflan® 500 per treated hectare. Read and follow all label directions.
		Emerged weeds present		DO NOT apply CAVALIER once bud swell has occurred. Use the higher rate when longer residual control is required (up to 4 months). When light infestations of weeds are present, apply as a tank mix with Wipe-Out® or Spraytop® to produce both knockdown and residual control. Read and follow all label directions. Where weed growth is large and dense, weeds must be eliminated prior to application of CAVALIER, using Wipe-Out or mechanical means.
Peaches, plums, apricots, almonds, grape vines, apples, pears, macadamias, pecans, walnuts	Annual Weeds Refer to Weeds Controlled list and Wipe-Out 360 label	Actively growing emerged weeds	75 mL/ha plus Wipe-Out 360 at recommended label rate.	Addition of CAVALIER to Wipe-Out will improve knockdown and increase the speed at which treated weeds develop visible symptoms of phytotoxicity (compared to results achieved with Wipe-Out applied alone), and give control annual nettles (<i>Urtica</i> spp.) and marshmallow (<i>Malva parviflora</i>). For rates of Wipe-Out, refer to the appropriate label. Read and follow all label directions. DO NOT apply the tank mix of Wipe-Out and CAVALIER near trees or vines less than 3 years old unless they are effectively shielded from spray and spray drift.



CROP/SITUATION	WEEDS CONTROLLED	TIME OF APPLICATION	RATE	CRITICAL COMMENTS
Treefruit, nuts and vines not less than 3 years old DORMANT APPLICATION Peaches, plums, apricots, almonds, grape vines, apples, pears, macadamias, pecans, walnuts	Most annual grasses and broadleaf weeds Refer to Weeds Controlled list and Spray.Seed 250 or Tryquat* 200 labels	Emerged weeds present	250 mL plus Spray.Seed 250 or Tryquat 200 at recommended label rates OR 25 to 30 mL/ 100 L plus Spray.Seed 250 or Tryquat 200 at recommended label rates	The addition of CAVALIER to Spray.Seed 250 or Tryquat 200 will improve control of small flowered mallow, evening primrose and other weeds sensitive to CAVALIER. Apply as a tank mix with Spray.Seed 250 or Tryquat 200, refer to the appropriate label and follow all label directions.
Duboisia	Refer to Weeds Controlled list	Weed free soil	4 or 8 L/ha	Apply after transplanting of young seedlings or after harvest of mature plants. Use the higher dosage where longer residual control (up to 6 months) is required. "Over-the-top" application will be tolerated.
		Weeds at the 4 to 6 true leaf stage		Best results are achieved when applied to moist soil free of weeds. However, some 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 means prior to application of CAVALIER. Add a non-ionic surfactant, Wetspray 1000 (250 mL/100 L spray solution) to enhance activity.
Tropical and Subtropical Fruit (inedible peel) mango, avocado, passionfruit, kiwi fruit, custard apple, lychees, pawpaw, longan, rambutan	Refer to Weeds Controlled list	Weed free soil	4 L/ha	Best results are obtained when applied to moist soil free of weeds.
		Emerged weeds present		If weeds are present CAVALIER should be applied as a tank mix with recommended rates of Wipe-Out, Spray.Seed or Spraytop 250.
Brassica crops cabbages, cauliflower, broccoli	Refer to Weeds Controlled list	Weed free soil	1.5 to 2 L/ha	Apply CAVALIER to prepared ground 4 to 7 days prior to transplanting. If soil is dry, irrigation or rainfall is required prior to transplanting for activation of CAVALIER. Utilise transplanting techniques which cause minimal soil disturbance. Excessive soil disturbance will lessen herbicidal activity. Use the higher rate in situations where weed pressure is known to be heavy.
Onions (seeded)	Blackberry nightshade	Hook leaf stage	50-100 mL/ha	DO NOT exceed 100 mL/ha at the hook leaf stage as excessive crop damage may occur.
	Docks, crowfoot/storksbill, fumitory weed (pink and white weed), hogweed (wireweed), plantain, sorrel, volunteer potato, potato weed, milk thistle, deadnettle, common cotula, groundsel	1½ to 2½ true leaf stage	350-500 mL/ha	Best results are obtained when the hook leaf stage treatment is followed by a further application of CAVALIER when onions are at the 1½ to 2½ true leaf stage. Apply CAVALIER in at least 100 L/ha water at pressures below 150 kPa. DO NOT exceed 150 kPa pressure because excessive crop damage could result. Multiple treatments may be applied provided the total dose does not exceed 2 L/ha in one season. For control of other weeds, use in a program with other registered herbicides. NOTE: Can cause flecking, twisting or stunting of onion plants although such symptoms are normally short-lived. DO NOT apply in conditions of very high humidity. DO NOT apply to weeds or crops which are stressed by prevailing weather conditions, disease or mechanical damage. DO NOT use wetting agents or other adjuvants.
Tobacco	Refer to Weeds Controlled list	Weed free soil	4 L/ha	Use to control weeds along spray lines only. DO NOT apply to tobacco crop. Apply to soil after solid-set irrigation system has been laid out in the field. CAVALIER should be applied to a moist soil. Where very small weeds (2-3 leaf) emerge prior to spraying, the addition of a wetting agent to the spray mixture is necessary for effective control. Should the weeds be more advanced, the addition of 2 L Tryquat 200 is required. Avoid spray drift.



CROP/SITUATION	WEEDS CONTROLLED	TIME OF APPLICATION	RATE	CRITICAL COMMENTS
Coffee	Refer to Weeds Controlled list	Weed free soil	2 to 4 L/ha	Apply after transplanting coffee plants or under established bushes. Use the higher rate where longer residual activity (up to 4 months) is required. Best results are achieved when applied to moist soil, free of weeds with follow-up irrigation.
		Weeds at the 2 to 4 true leaf stage		When seedlings are present, apply as a tank mix with Spraytop to produce both knockdown and residual control. Wetspray 1000 should be used in the spray mixture at 250 mL/100 L. Apply as a directed spray to avoid contact with coffee plants. Mature established weeds must be eliminated by mechanical or chemical means prior to application.
Forestry <i>Eucalyptus</i> spp. <i>Pinus</i> spp.	Refer to Weeds Controlled list	Weed free soil	3 or 4 L/ha	Apply to weed free soil either before or preferably soon after transplanting. Disturbance of the herbicidal barrier on the soil surface by the transplanting process may reduce the length of weed control. Use higher rate for longer residual control. Apply as a directed or over-the-top spray. CAVALIER may be tank mixed with Simagranz or other simazine products to extend the spectrum and length of weed control. Application to foliage that is soft and has not hardened off and/or if temperatures exceed 20°C may increase the likelihood of foliar damage to trees, eucalypts especially. CAVALIER has been found to be safe to commonly planted species used in forestry. Sensitivity of less common species should be checked prior to large scale application.
		Weeds at the 4 to 6 true leaf stage		Apply as an over-the-top spray to eucalypts and pines. Best results are achieved when applied to moist soil free of weeds. However, some newly germinated small seedling grasses and broadleaf weeds (4 to 6 true leaves) will be controlled at these rates. Addition of a non-ionic surfactant such as Wetspray 1000 at recommended rates will improve activity. Established weeds must be eliminated prior to application. CAVALIER may be tank mixed with FARMOZ Simzine 500 or other simazine products to extend the spectrum and length of weed control. Application to foliage that is soft or has not hardened off and/or if temperatures exceed 20°C may increase the likelihood of foliar damage to trees, eucalypts especially. CAVALIER has been found to be safe to commonly planted species used in forestry. Sensitivity of less common species should be checked prior to large scale application.
Forestry Trees	Broadleaf weeds and grasses	–	4 L/ha or 4 mL/10 m ²	For the establishment of trees for approved farm practices such as wind breaks, erosion control, woodlots and forestry plantings. When applying as a post-plant spray, ensure spray is directed to the base of seedlings, or that seedlings are protected. DO NOT apply under hot or windy conditions.
Pyrethrum – as bare rooted transplants or seedlings	Refer to Weeds Controlled list (except chickweed)	Pre-plant incorporated into weed free soil worked to a fine tilth	4 to 6 L/ha	Apply prior to final soil preparation. The preferred implements for final soil preparation would be either a multiple tyne cultivator or rotary harrows. Use the 6 L rate for heavy black clay soils only (as found in the Derwent and Coal River Valleys). CAVALIER will not provide consistent control of chickweed.
Pyrethrum – greater than 4 leaves	Blackberry nightshade (<i>Solanum nigrum</i>), fumitory (<i>Fumaria</i> spp.), hogweed (<i>Polygonum aviculare</i>), sorrel (<i>Rumex acetosella</i>), volunteer potato (<i>Solanum tuberosum</i>), cleavers (<i>Galium aparine</i>), field bindweed (<i>Convolvulus arvensis</i>), groundsel (<i>Senecio vulgaris</i>)	Emerged weeds present	100 to 150 mL/ha	Apply when pyrethrum growth stage is greater than 4 true leaf.
Pyrethrum – established crops greater than 1 year old	As above plus Sow thistle (<i>Sonchus</i> spp.), spear thistle (<i>Cirsium vulgare</i>)		200 mL to 4 L/ha	Apply when pyrethrum is greater than 100 mm rosettes. Apply rates of greater than 1.0 L/ha ONLY between 1 st of February and 31 st of March. DO NOT apply later than 25 weeks before harvest.



CROP/SITUATION	WEEDS CONTROLLED	TIME OF APPLICATION	RATE	CRITICAL COMMENTS
Prior to Sowing Winter cereals Cotton	Annual Weeds Refer to Weeds Controlled list and Wipe-Out 360 or Wipe-Out CT labels	Actively growing emergent weeds	75 mL/ha plus Wipe-Out CT or Wipe-Out 360 at recommended label rates	Addition of CAVALIER to Wipe-Out CT or Wipe-Out 360 will improve knockdown and increase the speed at which treated weeds develop visible symptoms of phytotoxicity (compared to results achieved with Wipe-Out CT or Wipe-Out 360 applied alone), and give control of annual nettles, <i>Urtica</i> spp. and marshmallow, <i>Malva parviflora</i> .

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

WITHHOLDING PERIODS:

GRAZING: DO NOT GRAZE TREATED WOODS.

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.

WEEDS CONTROLLED BY CAVALIER HERBICIDE INCLUDE THE FOLLOWING:

Amsinckia (*Amsinckia* spp.)
 Barley grass (*Hordeum leporinum*)
 Barnyard grass (*Echinochloa* spp.)
 Blackberry nightshade (*Solanum nigrum*)
 Bladder ketmia (*Hibiscus trionum*)
 Burrgrass (*Cenchrus australis*)
 Caltrop (*Tribulus terrestris*)
 Capeweed (*Arctotheca calendula*)
 Chickweed (*Stellaria media*)
 Crowsfoot grass (*Eleusine indica*)
 Deadnettle (*Lamium amplexicaule*)
 Fat hen (*Chenopodium album*)
 Giant pigweed (*Triantherna portulacastrum*)
 Liverseed grass (*Urochloa panicoides*)
 Lovegrass (*Eragrostis* spp.)
 Pigeon grass (*Setaria* spp.)
 Pigweed (*Portulaca oleracea*)
 Prickly lettuce (*Lactuca* spp.)
 Red natal grass (*Rhynchelytrum repens*)
 Redshank (*Amaranthus cruentus*)
 Ryegrass (*Lolium* spp.)
 Sesbania pea (*Sesbania cannabina*)
 Shepherd's purse (*Capsella bursa-pastoris*)
 Smallflower mallow (*Malva parviflora*)
 Soursob (*Oxalis pes-caprae*)
 Sowthistle (*Sonchus oleraceus*)
 Starburr (*Acanthospermum hispidum*)
 Stinkgrass (*Eragrostis cilianensis*)
 Summer grass (*Digitaria* spp.)
 Thornapple (*Datura stramonium*)
 White eye (*Richardia brasiliensis*)
 Wild mustard (*Sisymbrium* spp.)
 Wild radish (*Raphanus raphanistrum*)
 Wireweed (*Polygonum aviculare*)

SEEDLINGS (LESS THAN 4 TRUE LEAF)

WEEDS CONTROLLED BY CAVALIER HERBICIDE INCLUDE THE FOLLOWING:

Amsinckia (*Amsinckia* spp.)
 Bellvine (*Ipomoea* spp.)
 Capeweed (*Arctotheca calendula*)
 Common cotula (*Cotula australis*)
 Crowsfoot grass (*Eleusine indica*)
 Deadnettle (*Lamium amplexicaule*)
 Groundsel (*Senecio vulgaris*)
 Liverseed grass (*Urochloa panicoides*)
 Marshmallow (*Malva parviflora*)
 Pigweed (*Portulaca oleracea*)
 Potato weed (*Galinsoga parviflora*)
 Redshank (*Amaranthus cruentus*)
 Shepherd's purse (*Capsella bursa-pastoris*)
 Sowthistle (*Sonchus oleraceus*)
 Stinging nettle (*Urtica urens*)
 Stinkgrass (*Eragrostis cilianensis*)
 Wild radish (*Raphanus raphanistrum*)



GENERAL INSTRUCTIONS

RESISTANT WEEDS WARNING

FARMOZ CAVALIER Herbicide is a member of the Diphenyl ether group of herbicides. The mode of action of CAVALIER is to inhibit protoporphyrinogen oxidase. For weed resistance management CAVALIER is a Group G Herbicide.



Some naturally occurring weed biotypes resistant to CAVALIER and other inhibitors of protoporphyrinogen oxidase herbicides may exist through normal genetic variability in any weed population. The resistant weeds can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by CAVALIER or other inhibitors or protoporphyrinogen oxidase herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, FARMOZ Pty. Ltd. accepts no liability for any losses that may result from the failure of CAVALIER to control resistant weeds.

TIMING

For optimum residual weed control, CAVALIER 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 for which weed control is desired. When applied to seedling weeds, they should be young and actively growing.

Weed control for up to 6 months is expected by spot treatment, with knockdown herbicides, for escape weeds and perennial grasses may be necessary.

MIXING

When using CAVALIER alone, fill the spray tank at least one-third full with clean water, add the recommended amount of CAVALIER 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 minimise foaming.

When tank mixing with Surflan 500, add to one-third filled tank and then add the CAVALIER during the filling operation. Maintain agitation during mixing and until spraying is completed.

When tank mixing with Wipe-Out CT or Wipe-Out 360, Spray.Seed 250 or Tryquat 200, add these after CAVALIER during the filling operation.

When using CAVALIER in combination with Wipe-Out CT, Wipe-Out 360 or Surflan 500, refer to the appropriate label and read and follow all label directions.

APPLICATION

Spray equipment should be calibrated carefully before use.

CAVALIER should be applied uniformly as a directed treatment to the base of tree and vine crops using flat fan or off-centre nozzles. Complete coverage of seedling weeds is required for maximum knockdown effect.

A water volume of 250 to 500 litres per hectare is recommended for treatments on bare soil.

A spray volume of 100 to 1350 litres per hectare is recommended where seedling weeds (4 to 6 leaf stage) are present. Ensure both weed foliage and the soil surface are sprayed. Use the higher volumes where weed density is high.

Tank mixtures of 75 mL/ha of CAVALIER with Wipe-Out CT or Wipe-Out 360 herbicides, should be applied in 30 to 200 litres spray volume per hectare. For maximum residual control, CAVALIER should NOT be incorporated or disturbed after application.

CROP SAFETY

CAVALIER may be applied as directed around dormant peach, plum, apricot, almond, apple and pear trees and grape vines of all ages when applied at rates of less than 1.0 L/ha.

When applied at 3.0 L/ha and above, the trees and grape vines should be at least 3 years of age.

DO NOT apply CAVALIER once bud swell has occurred when using rates greater than 1.0 L/ha.

Duboisia seedlings and mature plants will tolerate "over-the-top" applications of CAVALIER. When using the 75 mL/ha rate, CAVALIER may be applied as directed prior to sowing winter cereals.

COMPATIBILITY

CAVALIER is compatible with Wipe-Out 360, Wipe-Out 450, Wipe-Out CT, Surflan 500, Reglone*, Spraytop, Tryquat 200, Touchdown*, Spray.Seed and Basta.

RE-ENTRY PERIOD

DO NOT allow entry into treated areas until the spray has dried. If prior entry is necessary, wear chemical resistant footwear.

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 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.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

For refillable containers, empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

Envirodrum – Micro Matic Valve (60, 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 FARMOZ Pty. Ltd.

SAFETY DIRECTIONS

Will damage eyes. Will irritate the skin. Avoid contact with eyes and skin. When opening the container and preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length butyl rubber gloves and goggles. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre on 131126.

MSDS

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for CAVALIER is available from FARMOZ on request. Call Customer Service on (02) 9363 3611.

CONDITIONS OF SALE: The use of FARMOZ CAVALIER Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by FARMOZ Pty. Ltd., 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 FARMOZ Pty. Ltd. accepts no responsibility for any consequence whatsoever from the use of this product.

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PACK SIZES: 1 L, 5 L, 10 L

