READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Surflan* 500 Flowable Herbicide

ACTIVE CONSTITUENT: 500 g/L ORYZALIN



For pre-emergent control of certain annual grasses and broadleaf weeds in non-bearing and bearing fruit and nut orchards, vineyards, nursery stock, ornamentals and amenity plantings as specified in the Directions for Use Table.

APVMA Approval No. 31814/10/0604 (31814/5/0604, 31814/20/0604)

Contents (5 Litres, 10 Litres, 20 Litres)

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Surflan 500 Flowable Herbicide

DIRECTIONS FOR USE

CROP GROUP				WEEDS CONTROLLED	RATE L/HA	CRITICAL COMMENTS
Banana ¹ Grape ²				Grasses: Barnyard	Short term	See GENERAL INSTRUCTIONS ¹ DO NOT use as a pre-emergent at the
Pome Fruit	Apple	Pear	(see also non-bearing fruits)	Guineagrass Love	control (up to 4	time of planting with tissue culture banana planting material.
Stonefruit	Apricot Cherry	Peach Plum & prune	Nectarine	Paradoxa months) 7 Pigeon 4.5 L	² Western Australia only: Vineyards on medium loam or heavier soil types, heavily infested with crabgrass	
Citrus Fruit	Grapefruit	Orange	(see also non-bearing fruits)	(Gentle Annie/Innocent		may be sprayed with up to 9.5 L/ha of Surflan 500 and together with pome fruit
Nuts	Almonds Macadamia	Pecan Walnut		Weed) Summer grass	Long term control	and all <i>Prunus</i> species on these soils spraying can be immediately after transplanting from nurseries providing buds are still dormant and no functional leaves are present. 3 Western Australia only: Apply early in summer for crabgrass (<i>Digitaria</i> sanguinalis) control and incorporate with overhead irrigation 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.
Non-bearing berryfruits	Blackberry Blueberry Boysenberry	Currant Gooseberry Loganberry	Raspberry	(Crabgrass 3) Broadleaf Weeds: Deadnettle Fathen Fumitory Portulaca (Pigweed) Sowthistle Wireweed (Hogweed) Brassica species Blackberry nightshade Caltrop	(6 to 8 months) 6.8 L	
Non-bearing – fruits, including nursery stock of the following: Nursery stock and/or seedling stage conifers including species of the following genus:	Avocado Custard apple Feijoa Guava Kiwifruit Abies (fir trees) Chamaecyparis (Lawson and false cypress) Cryptomeria Cupressus	Lemon Litchi Mandarin Mango Nashi Picea (spruces) Pinus (pine) Platycladus orientalis (oriental	Olive Passionfruit Pawpaw Persimmon Rambutan Pseudotsuga menziesii (Douglas fir or Oregon pine) Sequoia sempervirens (Coastal redwood) Taxus cuspidata (Japanese yew)			
	(cypress) Juniperus (Junipers)	arborvitae) Podocarpus	Thuja	Paddymelon Silverleaf nightshade		

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Nursery stock,	Australian native			Grasses:	Short term	See GENERAL INSTRUCTIONS
ornamentals,	species of the			Barnyard	control	¹ DO NOT use as a pre-emergent at the
and amenity	genus:			Guineagrass	(up to 4	time of planting with tissue culture
plantings	Acacia	Casuarina	Grevillea	Love	months)	banana planting material.
comprising of	(wattles)	(Oaks and	Hakea	Paradoxa	4.5 L	² Western Australia only:
the following:	Agonis	sheoak)	Hardenbergia	Pigeon		Vineyards on medium loam or heavier
	(WA Peppermint,	Chamaelauci	(sarsaparilla)	Spiny burr		soil types, heavily infested with crabgrass
	Willow (or Honey)	um	Hibbertia	(Gentle		may be sprayed with up to 9.5 L/ha of
	myrtle)	uncinatum	Kennedia	Ànnie/Innocent	Long term	Surflan 500 and together with pome fruit
	Allocasuarina	(Geraldton	Lechenaultia	Weed)	control	and all <i>Prunus</i> species on these soils
	Banksia	wax)	Leptospermum and	Summer grass	(6 to 8	spraying can be immediately after
	Boronia	Clematis	Melaleuca	(Crabgrass ³)	months)	transplanting from nurseries providing
	Callistemon	Correa	(teatrees)	(* 33.9)	6.8 L	buds are still dormant and no functional
	(Bottlebrush)	Eriostemon	Prostanthera	Broadleaf Weeds:		leaves are present.
	Callitris	myoporoides	(Mintbush)	Deadnettle		Western Australia only: Apply early in
	(Cypress pine)	(Wax flower)	`Thryptomene	Fathen Fumitory		summer for crabgrass (<i>Digitaria</i>
	Calytrix	Eucalyptus	Westringia	Portulaca		sanguinalis) control and incorporate with
	Cassia	Lacarypiac	rreeum.g.a	(Pigweed)		overhead irrigation.
	Cacora			Sowthistle		overnead irrigation.
				Wireweed		
				(Hogweed)		
				Brassias anasias ⁴		⁴ Control of these weeds may range from
				Brassica species		poor to excellent depending upon soil
				Blackberry		temperature, time of germination, depth
				nightshade		of weed seed in the soil, and amount and
				Caltrop		timing of soil moisture.
				Paddymelon		unning or soil moisture.
				Silverleaf nightshade		

DIRECTIONS FOR USE (continued)

CROP GROUP				WEEDS CONTROLLED	RATE L/HA	CRITICAL COMMENTS
Nursery stock, ornamentals, and amenity plantings comprising of the following:	Exotic species Abelia Acalypha Acer (maples) Arctostaphylos Ardisia Azalea Baccharis (groundsel bush) Bauhinia Berberis (barberry) Betula (birch trees) Bignonia Buxus (box) Calluna Camellia Ceanothus Cistus Clyostoma Coleonema Coprosma Cotoneaster Cuphea Cytisus (broom) Dodonea (hopbush) Erica (heath) Escallonia	of the genus: Euonymus Eutaxia Fatshedera Fuchsia Felicia Gardenia Gingko Hibiscus Ilex Jasminum Justicia Kalmia Koelreuteria Lagenaria Lagenstroemia Lantana Lavendula (lavender) Leucodendron Leucothoe Ligustrum Liquidambar Liriope Lonicera (honeysuckle) Magnolia Mahonia Metrosideros Monstera Myrtus Nandina Nerium (oleander)	Osmanthus Parahebe Philadelphus Philodendron Phoenix Photinia Pieris Pittosporum Populus (poplar) Prunus Pseudopanax Pyracantha Quercus Rhaphiolepis Rhododendron Rosa (roses) Rosmarinus (rosemary) Russelia Spiraea Trachelospermum (Rhyncospermum) Umbellularia Viburnum Washingtonia Weigela Xylosma Yucca	Grasses: Barnyard Guineagrass Love Paradoxa Pigeon Spiny burr (Gentle Annie/Innocent Weed) Summer grass (Crabgrass³) Broadleaf Weeds: Deadnettle Fathen Fumitory Portulaca (Pigweed) Sowthistle Wireweed (Hogweed) Brassica species⁴ Blackberry nightshade Caltrop Paddymelon Silverleaf nightshade	Short term control (up to 4 months) 4.5 L Long term control (6 to 8 months) 6.8 L	See GENERAL INSTRUCTIONS 1 DO NOT use as a pre-emergent at the time of planting with tissue culture banana planting material. 2 Western Australia only: Vineyards on medium loam or heavier soil types, heavily infested with crabgramay be sprayed with up to 9.5 L/ha of Surflan 500 and together with pome frui and all <i>Prunus</i> species on these soils spraying can be immediately after transplanting from nurseries providing buds are still dormant and no functional leaves are present. 3 Western Australia only: Apply early is summer for crabgrass (<i>Digitaria</i> sanguinalis) control and incorporate with overhead irrigation. 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.

Tea-tree oil	Tea-tree	6.8 L	⁵ Apply at time of planting and soon
plantations ⁵	(Melaleuca alternifolia)		after harvesting. Apply in 200 to 450
			L/ha water.

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

GENERAL INSTRUCTIONS:

Surflan 500 Flowable Herbicide is a pre-emergent surface applied herbicide which will control the specified annual grasses and broadleaf weeds in the crops 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 (12.5 mm) 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 2.5 cm of soil.

MIXING

The required amount of Surflan 500 should be added to a half-full spray tank and agitated well during completion of filling. Do not leave spray solutions to stand over night.

APPLICATION

Apply Surflan 500 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. Surflan 500 is compatible with paraquat, glyphosate, oxyfluorofen and simazine.

RESISTANT WEEDS WARNING



Surflan 500 Flowable Herbicide is a member of the dinitroanilines group of herbicides. The product has the inhibitor of tubulin formation mode of action. For weed resistance management, the product 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 this product or other Group D herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, United Phosphorus Ltd accepts no liability for any losses that may result from the failure of this product 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 local United Phosphorus Ltd 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 onto nearby susceptible plants/crops, cropping lands or pastures.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT:

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

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 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.

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 13 11 26.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet for Surflan 500 Flowable Herbicide which is available from United Phosphorus on request. Call Customer Service 02 9580 9790.

CONDITIONS OF SALE: United Phosphorus accepts responsibility for the consistent quality of the product; however since the use and application of the product is beyond control, the company accepts no responsibility whatsoever for any loss, damage or other result following the use of the product whether used in accordance with directions or not; other than those mandatorily imposed by statutes, the liability is limited to the replacement of the goods and is conditional upon a claim made in writing and, where necessary, a sufficient part of the goods being returned for proper examination by the company within thirty days of sale.

Batch No.	DOM	Bar Code