

# CAUTION

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



# GLUFOSINATE 200

## Herbicide

**ACTIVE CONSTITUENT: 200 g/L GLUFOSINATE-AMMONIUM**

**GROUP 10 HERBICIDE**

For the Non-Residual control of Broadleaf and  
Grass Weeds in Various Situations

**IMPORTANT: READ THE ATTACHED LEAFLET BEFORE  
OPENING OR USING THIS PRODUCT**

---

**Swan Chemical Holdings Pty. Ltd.**

Address: u2/9 Glossop St Wangara WA 6065.

PH: 1300 289 520 E: [info@swanchemicalholdings.com](mailto:info@swanchemicalholdings.com)

W: [swanchemicalholdings.com](http://swanchemicalholdings.com)

---

**20L**

**110L**

**1000L**

# GLUFOSINATE 200 HERBICIDE

## 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 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 regulations. DO NOT burn empty containers or product.

## SAFETY DIRECTIONS

Harmful if absorbed by skin contact or swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. If product on skin, immediately wash area with soap and water.

If product in eyes, wash out immediately with water. 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 INSTRUCTIONS

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) and is available from the supplier.

## CONDITIONS OF SALE

The use of Swan Glufosinate 200 Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Swan Chemical Holdings 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 Swan Chemical Holdings Pty Ltd accepts with no responsibility for any consequences whatsoever resulting from the use of this product.

**Harmful if swallowed or in contact with skin. May cause an allergic skin reaction. Causes serious eye irritation. May damage fertility or the unborn child. May cause damage to organs (Nervous system) through prolonged or repeated exposure. Harmful to aquatic life.**

If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read carefully and follow all instructions. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapour. Wash contaminated body parts thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/clothing/eye protection.

**IN EMERGENCY DIAL  
000  
POLICE OR FIRE BRIGADE**

**24HR EMERGENCY RESPONSE:  
AU +61 1800 951 288  
NZ +64 800 700 112**



APVMA Approval No: 96748/150579

DOM:

Batch No:



# CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



SWAN

# GLUFOSINATE 200

Herbicide

**ACTIVE CONSTITUENT:**

**200 g/L GLUFOSINATE-AMMONIUM**

**GROUP**

**10**

**HERBICIDE**

For the Non-Residual control of Broadleaf and Grass Weeds in Various Situations

**IMPORTANT: READ THIS LEAFLET BEFORE  
OPENING OR USING THIS PRODUCT**

APVMA Approval No: 96748/150579

---

**Swan Chemical Holdings Pty. Ltd.**

Address: u2/9 Glossop St Wangara WA 6065.

PH: 1300 289 520 E: [info@swanchemicalholdings.com](mailto:info@swanchemicalholdings.com)

W: [swanchemicalholdings.com](http://swanchemicalholdings.com)

---

## 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 deg.C with a relative humidity below 50%).

### Spray Drift Restraints

Specific definitions for terms used in this section of the label can be found at [apvma.gov.au/spraydrift](http://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. 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 1 to 2 hours before sunset and persist until 1 to 2 hours after sunrise.

CROP/ SITUATION	WEED	STATE	RATE	WHP	CRITICAL COMMENTS
Blackberry, Boysenberry, Loganberry, Raspberry	Primocane and sucker control	NSW, 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. Wetting agent (100% non-ionic) may be added at a rate of 25mL/100L or equivalent.

CROP/ SITUATION	WEED	STATE	RATE	WHP	CRITICAL COMMENTS		
Avocado, banana, feijoa, guava, kiwifruit, litchi, mango, pawpaw, passionfruit, pineapple, rambutan plantations	See list of weeds controlled in Tables 1 and 2	Qld, NSW, Vic, SA, WA, NT only	1.0 to 5.0 L/ha	Nil	Apply as a directed or shielded spray. Refer to the label section <b>Application Equipment</b> for specific information on application methods. Controlled Droplet Application equipment must not be used for application in cherry orchards. <b>Warnings:</b> DO NOT apply spray or spray drift to contact desirable foliage or green (un-calloused) bark. To avoid potential crop damage, refer to the label sections on <b>Application Equipment and PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS.</b>		
Citrus orchards					All States	Swan Glufosinate 200 Herbicide may be used around trees/vines less than two years old provided they are effectively shielded from spray and spray drift.	
Olive plantations						The recommended rate of use is determined by the following criteria: WEED SPECIES WEED STAGE OF GROWTH WEED DENSITY CLIMATIC CONDITIONS	
Pome and stone fruit orchards						21 days (H)	<b>WEED SPECIES</b> Apply the appropriate rate to control the least susceptible weed present as per the lists of weeds controlled in the accompanying tables. <b>WEED STAGE OF GROWTH</b> 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: nodding to flowering; broadleaves: budding to flowering). <b>WEED DENSITY</b> Use the higher rates when the weed population is dense. <b>Thorough coverage of weeds is essential for good control.</b> <b>CLIMATIC CONDITIONS</b> <b>Best results are achieved when applied under warm humid conditions.</b> 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 deg.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.
Tree nut plantations, Vineyards						Nil	<b>WEED SPECIES</b> Apply the appropriate rate to control the least susceptible weed present as per the lists of weeds controlled in the accompanying tables. <b>WEED STAGE OF GROWTH</b> 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: nodding to flowering; broadleaves: budding to flowering). <b>WEED DENSITY</b> Use the higher rates when the weed population is dense. <b>Thorough coverage of weeds is essential for good control.</b> <b>CLIMATIC CONDITIONS</b> <b>Best results are achieved when applied under warm humid conditions.</b> 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 deg.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. <b>COVERAGE</b> Complete coverage of weeds is essential for good control. Poor coverage may result in re-growth. <b>PERENNIAL WEEDS</b> Apply when weeds are actively growing. Follow up treatments will be necessary to control re growth of perennial weeds in most cases.

CROP/ SITUATION	WEED	STATE	RATE	WHP	CRITICAL COMMENTS
Strawberries, Cane berry fruits (inter-row)	See lists of weeds controlled in Tables 1 and 2	All States	1.0 to 5.0 L/ha	Nil	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)			1.0 to 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.
Commercial & Industrial areas, rights-of-way and other non agricultural areas	See lists of weeds controlled in Tables 1 and 2				

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

#### WITHHOLDING PERIODS

##### 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**

#### TRADE ADVICE

##### Export of Treated Produce

Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with Swan Glufosinate 200 Herbicide. If you are growing produce for export, please check with Swan Chemical Holdings Pty Ltd for the latest information on MRLs and import tolerances BEFORE using Swan Glufosinate 200 Herbicide.

**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
<b>ANNUAL WEEDS</b>				
Amaranthus spp.	<i>Amaranthus</i> spp.	2.0 to 5.0	500	75
Apple of Peru	<i>Nicandra physalodes</i>	1.5 to 3.0	300	45
Argentine peppercress	<i>Lepidium bonariense</i>	2.0 to 3.0	300	45
Awnless barnyard grass	<i>Echinochloa colona</i>	2.5 to 3.5	350	53
Barley grass	<i>Hordeum leporinum</i>	2.0 to 3.0	300	45
Barnyard grass	<i>Echinochloa crus-galli</i>	2.0 to 5.0	500	75
Billy goat weed	<i>Ageratum conyzoides</i>	2.0 to 5.0	500	75
Bitter cress	<i>Cardamine hirsute</i>	2.0 to 5.0	500	75
Black bindweed (buckwheat) (refer Note 2)	<i>Fallopia convolvulus</i>	1.8 to 5.0	500	75
Bladder ketmia	<i>Hibiscus trionum</i>	3.0 to 5.0	500	75
Bordered panic	<i>Entolasia marginata</i>	2.0 to 4.0	400	60
Brome grass (refer Note1)	<i>Bromus</i> spp.	2.0 to 3.0	300	45
Calopo	<i>Calopogonium mucanoides</i>	2.0 to 5.0	500	75
Caltrop burr (refer also Table 2)	<i>Tribulus terrestris</i>	3.0 to 5.0	500	75
Capeweed	<i>Arctotheca calendula</i>	1.5 to 5.0	500	75
Clover (subterranean)	<i>Trifolium subterranean</i>	1.8 to 3.0	300	45
Cobbler's peg	<i>Bidens pilosa</i>	2.0 to 5.0	500	75
Common storksbill	<i>Erodium cicutarium</i>	1.5 to 4.0	400	60
Crowsfoot grass	<i>Eleusine indica</i>	3.0 to 5.0	500	75
Deadnettle (refer also Table 2)	<i>Lamium amplexicaule</i>	2.0 to 5.0	500	75
Dwarf crumbweed	<i>Chenopodium pumilo</i>	3.0 to 5.0	500	75
Fat hen	<i>Chenopodium album</i>	3.0 to 5.0	500	75
Fumitory	<i>Fumaria officinalis</i>	1.8 to 5.0	500	75
Green crumbweed	<i>Chenopodium carinatum</i>	2.0 to 5.0	500	75
Lesser canary grass (refer also Table 2)	<i>Phalaris minor</i>	3.0 to 5.0	500	75
Liverseed grass (refer also Table 2)	<i>Urochloa panicoides</i>	1.5 to 5.0	500	75
Medics (annual)	<i>Medicago</i> spp.	1.0 to 5.0	500	75
Milk thistle	<i>Sonchus oleraceus</i>	2.0 to 5.0	500	75
Mint weed	<i>Salvia reflexa</i>	3.0 to 5.0	500	75
New Zealand spinach	<i>Tetragonia tetragoniodes</i>	2.0 to 5.0	500	45
Patterson's Curse	<i>Echium plantagineum</i>	1.0 to 3.0	300	45
Peanuts	<i>Arachis hypogaea</i>	1.5 to 3.0	300	75
Pigweed	<i>Portulaca oleracea</i>	3.0 to 5.0	500	75
Pinkburr	<i>Urena lobata</i>	2.0 to 5.0	500	75
Potato weed	<i>Galinsoga parviflora</i>	2.0 to 5.0	500	75
Praire grass (refer Note 1)	<i>Bromus unioloides</i>	4.0 to 5.0	500	75
Prickly lettuce	<i>Lactuca serriola</i>	3.0 to 5.0	500	75
Red natal grass	<i>Rhynchelytrum repens</i>	2.0 to 5.0	500	75
Ryegrass (annual)	<i>Lolium rigidum</i>	2.0 to 5.0	500	75
Saffron thistle	<i>Carthamus lanatus</i>	1.5 to 5.0	500	75
St. Barnby's thistle	<i>Centaurea solstitialis</i>	1.5 to 5.0	500	45
Sago weed	<i>Plantago cunninghamii</i>	2.0 to 3.0	300	75

Common name	Scientific name	Application rates		
ANNUAL WEEDS		Boom or Directed Sprayer (L/ha)	Handgun mL/100L	Knapsack mL/15L
Scarlet pimpernel	<i>Anagallis arvensis</i>	2.0 to 5.0	500	75
Setaria	<i>Setaria italica</i>	2.0 to 5.0	500	75
Sheep thistle	<i>Carduus tenuiflorus</i>	2.5 to 5.0	500	75
Silver grass	<i>Vulpia myuros</i>	2.0 to 5.0	500	75
Sorghum/sudax	<i>Sorghum bicolor</i>	2.0 to 5.0	500	75
Square weed	<i>Spermacoce latifolia</i>	2.0 to 5.0	500	75
Stagger weed	<i>Stachys arvensis</i>	2.0 to 5.0	500	75
Star of Bethlehem	<i>Ipomoea quamoclit</i>	2.0 to 5.0	500	75
Summer grass	<i>Digitaria ciliaris</i>	2.0 to 5.0	500	75
Thickhead	<i>Crassocephalum crepidioides</i>	3.0 to 5.0	500	75
Three Cornered Jack	<i>Emex australis</i>	2.0 to 5.0	500	75
Tomato	<i>Lycopersicon esculentum</i>	2.0 to 5.0	500	75
Turnip weed	<i>Rapistrum rugosum</i>	3.0 to 5.0	500	75
Variigated thistle (refer also Table 2)	<i>Silybum marianum</i>	2.5 to 5.0	500	75
Wheat	<i>Triticum aestivum</i>	4.0 to 5.0	500	75
Wild carrot	<i>Daucus glochidiatus</i>	2.0 to 5.0	500	75
Wild gooseberry	<i>Physalis minima</i>	2.0 to 5.0	500	75
Wild mustard	<i>Sysimbrium orientale</i>	2.0 to 5.0	500	75
Wild oats (refer also Table 2)	<i>Avena spp.</i>	3.0 to 5.0	500	75
Wild radish	<i>Raphanus raphanistrum</i>	5.0	500	75
Wire weed (refer also Table 2)	<i>Polygonum aviculare</i>	1.5 to 5.0	500	75

Common name	Scientific name	Application rates		
PERENNIAL WEEDS		Boom or Directed Sprayer (L/ha)	Handgun mL/100L	Knapsack mL/15L
Blady grass	<i>Imperata cylindrica</i>	3.0 to 4.0	400	60
Cape tulip	<i>Homeria spp.</i>	2.0 to 3.0	300	45
Centro	<i>Centrosema pubescens</i>	1.0 to 5.0	500	75
Clover glycine	<i>Glycine latrobeana</i>	1.0 to 3.0	300	45
Couch grass	<i>Cynodon dactylon</i>	2.5 to 5.0	500	75
Cow pea	<i>Vigna unguiculata</i>	1.0 to 3.0	300	45
Giant sensitive plant	<i>Mimosa invisa</i>	2.0 to 5.0	500	75
Greenleaf desmodium	<i>Desmodium intortum</i>	1.0 to 3.0	300	45
Johnson grass	<i>Sorghum halepense</i>	3.0 to 5.0	500	75
Panicum spp.	<i>Panicum spp.</i>	2.0 to 5.0	500	75
Paspalum spp.	<i>Paspalum spp.</i>	3.0 to 5.0	500	75
Perennial bindweed	<i>Convolvulus arvensis</i>	2.0 to 3.0	300	45
Shamrock	<i>Oxalis corymbosa</i>	3.0	300	45
Sida weed (refer also Table 2)	<i>Sida retusa</i>	3.0 to 5.0	500	75
Silver leaf desmodium	<i>Desmodium uncinatum</i>	4.0 to 5.0	500	75
Sirato	<i>Macroptilium atropurpureum</i>	1.0 to 3.0	300	45

Common name	Scientific name	Applicaton rates		
PERENNIAL WEEDS		Boom or Directed Sprayer (L/ha)	Handgun mL/100L	Knapsack mL/15L
Stink grass	<i>Eragrostis ciliarensis</i>	3.0 to 5.0	500	75
White clover	<i>Trifolium repens</i>	3.0 to 5.0	500	75
White eye	<i>Richardia brasiliensis</i>	3.0 to 5.0	500	75
Willow herb	<i>Epilobium</i> spp.	4.0 to 5.0	500	75

**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	Applicaton rates		
ANNUAL WEEDS		Boom or Directed Sprayer (L/ha)	Handgun mL/100L	Knapsack mL/15L
Caltrop burr	<i>Tribulus terrestris</i>	4.0 to 5.0	500	75
Dead nettle	<i>Lamium amplexicaule</i>	6.0	600	90
Lesser canary grass	<i>Phalaris minor</i>	4.0 to 6.0	600	90
Liverseed grass	<i>Urochloa panicoides</i>	1.5	150	23
Variogated thistle	<i>Silybum marianum</i>	6.0	600	90
Wild oats	<i>Avena</i> spp.	5.0 to 6.0	600	90
Wire weed	<i>Polygonum aviculare</i>	2.0 to 5.0	500	75

Common name	Scientific name	Applicaton rates		
PERENNIAL WEEDS		Boom or Directed Sprayer (L/ha)	Handgun mL/100L	Knapsack mL/15L
Sida weed	<i>Sida retusa</i>	4.0 to 5.0	500	75

## GENERAL INSTRUCTIONS

Swan Glufosinate 200 Herbicide is a non-volatile herbicide with activity against many annual and perennial broadleaf weeds and grasses.

Swan Glufosinate 200 Herbicide 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. Swan Glufosinate 200 Herbicide does not provide residual weed control. Visible symptoms of control appear in 3 to 7 days, but complete desiccation may take 20 to 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

Swan Glufosinate 200 Herbicide 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 Swan Glufosinate 200 Herbicide.

As damage to transplants or seedlings may occur, it is not advisable to apply Swan Glufosinate 200 Herbicide in conjunction with soil fumigation or sterilisation.

### Plastic mulches

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

### Compatibility

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 a 1000 g/L non-ionic wetting agent, or equivalent. For information on compatible wetting agents and adjuvants, contact your local Swan Chemical Holdings Pty Ltd representative.

### Mixing

Swan Glufosinate 200 Herbicide mixes easily with water. Clean water should always be used for mixing with Swan Glufosinate 200 Herbicide. 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 Swan Glufosinate 200 Herbicide. 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

Swan Glufosinate 200 Herbicide 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 to 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

Swan Glufosinate 200 Herbicide 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 to 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 hollowcone nozzles for hand spraying is recommended.

### Controlled Droplet Application (CDA) Equipment

Swan Glufosinate 200 Herbicide 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 to 30 L/ha has been found to give good results. DO NOT mix residual herbicides or any spray adjuvants with Swan Glufosinate 200 Herbicide when using CDA equipment.

**Warning:** Because the spray solution is highly concentrated particular care must be taken when using Swan Glufosinate 200 Herbicide through CDA equipment to avoid contact of the spray solution with any part of the crop trunk or canopy. DO NOT apply Swan Glufosinate 200 Herbicide 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.

### RESISTANCE WEEDS WARNING

GROUP	<b>10</b>	HERBICIDE
-------	-----------	-----------

Swan Glufosinate 200 Herbicide is a member of the glycine group of herbicides. Swan Glufosinate 200 Herbicide has the inhibitor of glutamine synthetase mode of action. For weed resistance management Swan Glufosinate 200 Herbicide is a Group 10 herbicide. Some naturally occurring weed biotypes resistant to Swan Glufosinate 200 Herbicide, and other Group 10 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 Swan Glufosinate 200 Herbicide or other Group 10 herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Swan Chemical Holdings Pty Ltd accepts no liability for any losses that may result from the failure of Swan Glufosinate 200 Herbicide to control resistant weeds.

### PRECAUTIONS

#### 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 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. Swan Glufosinate 200 Herbicide 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 Swan Glufosinate 200 Herbicide.

DO NOT apply Swan Glufosinate 200 Herbicide 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.

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 regulations. DO NOT burn empty containers or product.

#### **SAFETY DIRECTIONS**

Harmful if absorbed by skin contact or swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. If product on skin, immediately wash area with soap and water.

If product in eyes, wash out immediately with water. 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 INSTRUCTIONS**

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) and is available from the supplier.

#### **LIMIT OF WARRANTY AND LIABILITY**

Swan Chemical Holdings Pty Ltd. ('Swan') warrants that this material conforms to the chemical description on the label. As the use of product sold is beyond the control of Swan, no responsibility whatsoever for any consequences is accepted in respect of this product, save those non-excludable conditions implied by any State and Federal legislation or law of a Territory. Not for repackaging or reformulation. No license under any non-Australian patent is granted or implied by purchase of this container.

<b>IN EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE</b>	<b>24HR EMERGENCY RESPONSE: AU +61 1800 951 288 NZ +64 800 700 112</b>
---	--