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# **CAUTION**

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



# Guillotine Herbicide

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

GROUP N HERBICIDE

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

IMPORTANT: READ THIS LEAFLET BEFORE USING THIS PRODUCT

APVMA Approval No.: 65157/120751



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# **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°C with a relative humidity below 50%).

|  | T                                       | T             |                | T                       |   |
|--|---|---------------|----------------|-------------------------|---|
| Crop /<br>Situation  | Weed                                    | State         | Rate           | WHP                     | Critical Comments   |
| Tropical and sub-tropical fruits – inedible peel, including, Avocado, banana, feijoa, guava, kiwifruit, litchi, mango, paw paw, passionfruit, pineapple, pitaya (dragon fruit), rambutan plantations  Citrus orchards  Olive plantations  Pome and | See list of weeds controlled in Table 1 | All<br>States | 1 to 5<br>L/ha | H: Nil<br>G: 8<br>weeks | Apply as a directed or shielded spray. Refer to the label section Application Equipment for specific information on application methods.  Warnings:  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 Application Equipment and PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS.  Controlled Droplet Application equipment must not be used for application in cherry orchards.  Guillotine Herbicide may be used around trees/vines less than two years old provided they are effectively shielded from spray and spray drift. The recommended rate of use is determined by the following criteria:  WEED SPECIES WEED STAGE OF GROWTH WEED DENSITY CLIMATIC CONDITIONS |
| stone fruit<br>orchards  |   |               |                | days<br>G: 8<br>weeks   | Apply the appropriate rate to control the least susceptible weed present as per the lists of weeds controlled in the accompanying tables.   |
| Tree nut plantations   |   |               |                | H: Nil<br>G: 8<br>weeks | WEED STAGE OF GROWTH 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: noding to flowering; broadleaves: budding to flowering).   |
|  |   |               |                |                         | WEED DENSITY Use the higher rates when the weed population is dense. Thorough coverage of weeds is essential for good control.  |
|  |   |               |                |                         | Continued on next page  |

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| Crop /<br>Situation                                     | Weed  | State                       | Rate                     | WHP                          | Critical Comments  |
|---|---|-----------------------------|--------------------------|------------------------------|--|
| Vineyards   | See list of<br>weeds<br>controlled<br>in Table 1                  | All<br>States               | 1 to 5<br>L/ha           | H: Nil<br>G: 8<br>weeks      | CLIMATIC CONDITIONS Best results are achieved when applied under warm humid conditions. 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°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.  COVERAGE Complete coverage of weeds is essential for good control. Poor coverage may result in re-growth.  PERENNIAL WEEDS Apply when weeds are actively growing. Follow-up treatments will be necessary to control regrowth of perennial weeds in most cases. |
| Blackberry,<br>boysenberry,<br>loganberry,<br>raspberry | Primocane<br>and sucker<br>control                                | NSW,<br>Vic,<br>Tas<br>only | 500<br>mL/100 L<br>water | H: Nil<br>G: 8<br>weeks      | 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 25  |
| Blackcurrant  | See lists of<br>weeds<br>controlled<br>in Table 1                 | All<br>states               | 1 to 5<br>L/ha           |                              | mL/100L or equivalent.  The spray should not contact foliage, flowers, fruits or young stems.  DO NOT make more than 2 applications per season.  |
| Blueberries   | See lists of<br>weeds<br>controlled<br>in Table 1                 |                             |                          |                              | DO NOT apply to young, green or un-calloused and damaged blueberry plants. DO NOT apply to weeds under stress. DO NOT apply in unfavourable weather conditions.  |
| Date Palms (Phoenix dactylifera)  Green Tea             | See lists of<br>weeds<br>controlled<br>in Table 1<br>See lists of |                             |                          | H: 1<br>day<br>G: 8<br>weeks | DO NOT allow spray, including drift, to contact any part of the crop as severe damage or crop destruction may result. It is recommended to use shielded sprayer or hooded spray nozzles when spraying between crop rows or near the emerged  |
| (Camellia sinensis)  Native Foods                       | weeds controlled in Table 1 See lists of weeds                    |                             |                          |                              | crops to avoid crop damage from direct spray and drift. Apply as necessary to actively growing weeds, free from environmental stresses, up to a maximum three (3) applications per season.  Rotate herbicide mode of action groups within and  |
| [see Note<br>below]                                     | controlled<br>in Table 1  |                             |                          |                              | across growing seasons. Use suitable ground application equipment, including boom sprayer, back-pack sprayer, handlance sprayer, knapsack, or CDA. Ensure equipment is correctly calibrated. Use higher rates for perennial grass weeds. Increase the application rate for glufosinate-ammonium as the size, age and/or density of the weeds increase and become more established. Avoid spraying when crops are in flower or fruiting. DO NOT harvest leaves from native pepper or wattles that are close to the ground for food uses.  |

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| Crop /<br>Situation   | Weed  | State         | Rate   | WHP                            | Critical Comments   |  |
|---|---|---------------|--|--------------------------------|---|--|
| Note: Native Foods include: Wattles (Acacia spp.), Lemon Myrtle (Backhousia citriodora), Finger Lime (Citrus australasica), Desert Lime (Citrus glauca), Mullumbimby Plum (Davidsonia jerseyana), Davidson's Plum (Davidsonia johnsonii), Queensland Davidson's Plum (Davidsonia pruriens), Muntrie Berry (Kunzea pomifera), Desert Quandong (Santalum acuminatum), Desert Raisin (Solanum centrale), Anise Myrtle (Syzygium anisatum), Small Red Apple (Syzygium fibrosum), Lilly Pilly (Syzygium lehumannii), Kakadu Plum (Terminalia ferdinandiana) and Native Pepper (Tasmanian lanceolata) |   |               |  |                                |   |  |
| Dubosia   | See lists of<br>weeds<br>controlled<br>in Table 1                                       | All<br>states | 1 to 5<br>L/ha   | G: 8<br>weeks                  | Spray should be directed to the base of the plants avoiding contact with the foliage.  Best results are achieved when applied under warm humid conditions.  Complete coverage of weeds is essential for good control.   |  |
| Green Bean<br>(French Bean)<br>(Field use only)   |   |               |  | H: 4<br>weeks<br>G: 4<br>weeks | Use inter-row shielded sprayer with a fan nozzle delivering coarse droplets. Use lower rates when weeds are young, or the population is sparse, and higher rates when weeds are mature or weed population is dense. Apply to actively growing weeds.  DO NOT apply more than 1 foliar application per season.   |  |
| Pyrethrum   | Spear Thistle, Cleavers, Hawkbit, Cat's ear, Dandelion plus any weeds listed in Table 1 |               | 30 - 75<br>mL /15 L<br>water   | G: 8<br>weeks                  | Apply directly to weeds by knapsack only. Avoid direct contact with pyrethrum.  |  |
| Oil Tea Tree  Nursery stock [(non-food) – seedlings, plugs, potted colour, trees, shrubs, foliage plants, palms, grasses, fruit trees (non- bearing)], Cut flowers including wildflowers and foliage.  Wildflower crops [see Note below]  | See lists of weeds controlled in Table 1  |               | Boom<br>spray:<br>1 - 5 L/ha<br>Hand-<br>gun: 300<br>– 500<br>mL/100 L |                                | Apply spray treatment along the sides of crops and between rows of crops.  Avoid overspray or incidental spray drift onto crop, as damage or death of plants may occur.  Apply as necessary to actively growing weeds up to a maximum three applications per season.  Use suitable ground application equipment.  Ensure equipment is correctly calibrated. Use higher rates for perennial grass weeds. Increase the application rate as the size of target weeds increases.  Only apply spray to actively growing grass weeds free from environmental stresses. Avoid spraying when crops are in flower or fruiting. |  |

Note: Wildflower crops include:

Banksia species (*Banksia spp.*) – cultivars and hybrids, Berzelia or Button Brush (*Berzelia spp.*), Black Kangaroo Paw (*Macropidia spp.*) – cultivars and hybrids, Christmas Bells (*Blandfordia grandiflora*), Christmas Bush (*Ceratopetalum gummiferum*), Geraldton Wax and Waxflower species (*Chamelaucium spp.*) – cultivars and hybrids, Kangaroo Paw (*Anigozanthos spp.*) – cultivars and hybrids, Leucadendron species – cultivars and hybrids, Leucospermum species (*Leucospermum spp.*) – cultivars and hybrids (pincushions), Protea (*Protea spp.*) – cultivars and hybrids, Riceflower (*Ozothamnus diosmifolius*), Waratah species (*Telopea speciosissima*) – cultivars and hybrids.

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Crop / Weed State Rate **WHP Critical Comments** Situation Strawberries, See lists of ΑII 1 to 5 H: Nil Apply as a directed or shielded spray to the inter-Caneberry fruits row area. Take care not to allow spray or spray weeds states L/ha (inter-row) controlled drift to contact the crop, including Strawberry G: 8 in Table 1 runners. Refer to GENERAL INSTRUCTIONS for weeks warnings concerning plastic mulch and Tomatoes fumigated/sterilised soil. Determine the (inter-row) recommended rate of use by considering the criteria WEED SPECIES, WEED STAGE OF GROWTH, WEED DENSITY and CLIMATIC CONDITIONS, as described above. Commercial & See lists of 1 to 6 Determine the recommended rate of use by considering the criteria WEED SPECIES, WEED Industrial areas, weeds L/ha controlled STAGE OF GROWTH, WEED DENSITY and rights-of-way CLIMATIC CONDITIONS as described above. and other nonin Tables 1 agricultural and 2 Warnings: DO NOT allow spray or spray drift to areas 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. 250 to Line-marking on Turf ΔII Refer to General Instructions. 500 mL sports grounds grasses states Guillotine Herbicide is a non-selective, nonand other /100L residual herbicide with limited translocation weeds water potential. It is therefore ideally suited for linemarking on sports fields where precise weed control is required. Apply at 6 - 8 week intervals depending on growth of turf. Apply using a single nozzle boom or hand

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

# WITHHOLDING PERIODS (WHP)

# HARVEST (H)

Blackberry, blackcurrant, blueberries, boysenberry, citrus fruit, grapes, loganberry, olives, raspberry, strawberries, tomatoes, tree nuts, tropical and sub-tropical fruits – inedible peel (avocado, banana, feijoa, guava, kiwifruit, litchi, mango, passionfruit, pawpaw, pineapple, pitaya (dragon fruit), rambutan): NOT REQUIRED WHEN USED AS DIRECTED. Pome and stone fruit: DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION. Green bean (French bean): DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION. Date palms, green tea, native foods: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION. DO NOT harvest leaves from native pepper or wattles that are close to the ground for food uses.

#### **GRAZING (G)**

Beans: DO NOT GRAZE OR CUT TREATED AREAS FOR STOCKFOOD FOR 4 WEEKS AFTER APPLICATION.

All Other Crops: DO NOT GRAZE OR CUT TREATED AREAS FOR STOCKFOOD FOR 8 WEEKS AFTER APPLICATION.

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 Table 1. Recommendations for Weed Control (except when referred to Table 2).

|  |                                | Application Rates                      |                     |                     |  |
|--|--------------------------------|--|---------------------|---------------------|--|
| Common Name                                  | Scientific Name                | Boom or<br>Directed<br>Sprayer<br>L/ha | Handgun<br>mL/100 L | Knapsack<br>mL/15 L |  |
| ANNUAL WE                                    |                                |  |                     |                     |  |
| Amaranthus                                   | Amaranthus spp.                | 2 to 5                                 | 500                 | 75                  |  |
| Apple of Peru                                | Nicandra physalodes            | 1.5 to 3                               | 300                 | 45                  |  |
| Argentine peppercress                        | Lepidium bonariense            | 2 to 3                                 | 300                 | 45                  |  |
| Awnless barnyard grass                       | Echinochloa colona             | 2.5 to 3.5                             | 350                 | 53                  |  |
| Barley grass                                 | Hordeum leporinum              | 2 to 3                                 | 300                 | 45                  |  |
| Barnyard grass                               | Echinochloa crus-galli         | 2 to 5                                 | 500                 | 75                  |  |
| Billy goat weed                              | Ageratum conyzoides            | 2 to 5                                 | 500                 | 75                  |  |
| Bitter cress                                 | Cardamine hirsute              | 2 to 5                                 | 500                 | 75                  |  |
| Black bindweed (buckwheat) (refer<br>Note 2) | Fallopia convolvulus           | 1.8 to 5                               | 500                 | 75                  |  |
| Bladder ketmia                               | Hibiscus trionum               | 3 to 5                                 | 500                 | 75                  |  |
| Bordered panic                               | Entolasia marginata            | 2 to 4                                 | 400                 | 60                  |  |
| Brome grass (refer Note1)                    | Bromus spp.                    | 2 to 3                                 | 300                 | 45                  |  |
| Calopo                                       | Calopogonium mucanoides        | 2 to 5                                 | 500                 | 75                  |  |
| Caltrop burr (refer also Table 2)            | Tribulus terrestris            | 3 to 5                                 | 500                 | 75                  |  |
| Capeweed                                     | Arctotheca calendula           | 1.5 to 5                               | 500                 | 75                  |  |
| Clover (subterranean)                        | Trifolium subterranean         | 1.8 to 3                               | 300                 | 45                  |  |
| Cobbler's peg                                | Bidens pilosa                  | 2 to 5                                 | 500                 | 75                  |  |
| Common storksbill                            | Erodium cicutarium             | 1.5 to 4                               | 400                 | 60                  |  |
| Crowsfoot grass                              | Eleusine indica                | 3 to 5                                 | 500                 | 75                  |  |
| Deadnettle (refer also Table 2)              | Lamium amplexicaule            | 2 to 5                                 | 500                 | 75                  |  |
| Dwarf crumbweed                              | Chenopodium pumilo             | 3 to 5                                 | 500                 | 75                  |  |
| Fat hen                                      | Chenopodium album              | 3 to 5                                 | 500                 | 75                  |  |
| Fumitory                                     | Fumaria officinalis            | 1.8 to 5                               | 500                 | 75                  |  |
| Green crumbweed                              | Chenopodium carinatum          | 2 to 5                                 | 500                 | 75                  |  |
| Lesser canary grass (refer also Table 2)     | Phalaris minor                 | 3 to 5                                 | 500                 | 75                  |  |
| Liverseed grass (refer also Table 2)         | Urochloa panicoides            | 1.5 to 5                               | 500                 | 75                  |  |
| Medics (annual)                              | Medicago spp.                  | 1 to 5                                 | 500                 | 75                  |  |
| Milk thistle                                 | Sonchus oleraceus              | 2 to 5                                 | 500                 | 75                  |  |
| Mint weed                                    | Salvia reflexa                 | 3 to 5                                 | 500                 | 75                  |  |
| New Zealand spinach                          | Tetragonia tetragoniodes       | 2 to 5                                 | 500                 | 75                  |  |
| Patterson's Curse                            | Echium plantagineum            | 1 to 3                                 | 300                 | 45                  |  |
| Peanuts                                      | Arachis hypogaea               | 1.5 to 3                               | 300                 | 45                  |  |
| Pigweed                                      | Portulaca oleracea             | 3 to 5                                 | 500                 | 75                  |  |
| Pinkburr                                     | Urena lobata                   | 2 to 5                                 | 500                 | 75                  |  |
| Potato weed                                  | Galinsoga parviflora           | 2 to 5                                 | 500                 | 75                  |  |
| Prairie grass (refer Note 1)                 | Bromus unioloides              | 4 to 5                                 | 500                 | 75                  |  |
| Prickly lettuce                              | Lactuca serriola               | 3 to 5                                 | 500                 | 75                  |  |
| Red natal grass                              | Rhynchelytrum repens           | 2 to 5                                 | 500                 | 75                  |  |
| Ryegrass (annual)                            | Lolium rigidum                 | 2 to 5                                 | 500                 | 75                  |  |
| Saffron thistle                              | Carthamus lanatus              | 1.5 to 5                               | 500                 | 75                  |  |
| St. Barnaby's thistle                        | Centaurea solstitialis         | 1.5 to 5                               | 500                 | 75                  |  |
| Sago weed                                    | Plantago cunninghamii          | 2 to 3                                 | 300                 | 45                  |  |
| Scarlet pimpernel                            | Anagallis arvensis             | 2 to 5                                 | 500                 | 75                  |  |
| Setaria                                      | Setaria italica                | 2 to 5                                 | 500                 | 75                  |  |
| Sheep thistle                                | Carduus tenuiflorus            | 2.5 to 5                               | 500                 | 75                  |  |
| Silver grass                                 | Vulpia myuros                  | 2 to 5                                 | 500                 | 75                  |  |
| Sorghum/sudax                                | Sorghum bicolor                | 2 to 5                                 | 500                 | 75                  |  |
| Square weed                                  | Spermacoce latifolia           | 2 to 5                                 | 500                 | 75                  |  |
| Stagger weed                                 | Stachys arvensis               | 2 to 5                                 | 500                 | 75                  |  |
| Star of Bethlehem                            | Ipomoea quamoclit              | 2 to 5                                 | 500                 | 75                  |  |
| Summer grass                                 | Digitaria cillaris             | 2 to 5                                 | 500                 | 75                  |  |
| Thickhead                                    | Crassocephalum<br>crepidioides | 3 to 5                                 | 500                 | 75                  |  |
| Three Cornered Jack                          | Emex australis                 | 2 to 5                                 | 500                 | 75                  |  |

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|   |                            | Application Rates                      |                     |                     |  |
|---|----------------------------|--|---------------------|---------------------|--|
| Common Name                             | Scientific Name            | Boom or<br>Directed<br>Sprayer<br>L/ha | Handgun<br>mL/100 L | Knapsack<br>mL/15 L |  |
| Tomato                                  | Lycopersicon esculentum    | 2 to 5                                 | 500                 | 75                  |  |
| Turnip weed                             | Rapistrum rugosum          | 3 to 5                                 | 500                 | 75                  |  |
| Variegated thistle (refer also Table 2) | Silybum marianum           | 2.5 to 5                               | 500                 | 75                  |  |
| Wheat                                   | Triticum eastivum          | 4 to 5                                 | 500                 | 75                  |  |
| Wild carrot                             | Daucus glochidiatus        | 2 to 5                                 | 500                 | 75                  |  |
| Wild gooseberry                         | Physalis minima            | 2 to 5                                 | 500                 | 75                  |  |
| Wild mustard                            | Sysimbrium orientale       | 2 to 5                                 | 500                 | 75                  |  |
| Wild oats (refer also Table 2)          | Avena spp.                 | 3 to 5                                 | 500                 | 75                  |  |
| Wild radish                             | Raphanus raphanistrum      | 5                                      | 500                 | 75                  |  |
| Wireweed (refer also Table 2)           | Polygonum aviculare        | 1.5 to 5                               | 500                 | 75                  |  |
| PERENNIAL V                             | VEEDS                      |  |                     |                     |  |
| Blady grass                             | Imperata cylindrica        | 3 to 4                                 | 400                 | 60                  |  |
| Cape tulip                              | Homeria spp.               | 2 to 3                                 | 300                 | 45                  |  |
| Centro                                  | Centrosema pubescens       | 1 to 5                                 | 500                 | 75                  |  |
| Clover glycine                          | Glycine latrobeana         | 1 to 3                                 | 300                 | 45                  |  |
| Couch grass                             | Cynodon dactylon           | 2.5 to 5                               | 500                 | 75                  |  |
| Cow pea                                 | Vigna unguiculata          | 1 to 3                                 | 300                 | 45                  |  |
| Giant sensitive plant                   | Mimosa invisa              | 2 to 5                                 | 500                 | 75                  |  |
| Greenleaf desmodium                     | Desmodium intortum         | 1 to 3                                 | 300                 | 45                  |  |
| Johnson grass                           | Sorghum halepense          | 3 to 5                                 | 500                 | 75                  |  |
| Panicum                                 | Panicum spp.               | 2 to 5                                 | 500                 | 75                  |  |
| Paspalum                                | Paspalum spp.              | 3 to 5                                 | 500                 | 75                  |  |
| Perennial bindweed                      | Convolvulus arvensis       | 2 to 3                                 | 300                 | 45                  |  |
| Shamrock                                | Oxalis corymbosa           | 3                                      | 300                 | 45                  |  |
| Sida weed (refer also Table 2)          | Sida retusa                | 3 to 5                                 | 500                 | 75                  |  |
| Silver leaf desmodium                   | Desmodium uncinatum        | 4 to 5                                 | 500                 | 75                  |  |
| Siratro                                 | Macroptilium atropurpureum | 1 to 3                                 | 300                 | 45                  |  |
| Stink grass                             | Eragrostis cilianensis     | 3 to 5                                 | 500                 | 75                  |  |
| White clover                            | Trifolium repens           | 3 to 5                                 | 500                 | 75                  |  |
| White eye                               | Richardia brasiliensis     | 3 to 5                                 | 500                 | 75                  |  |
| Willow herb                             | Epilobium spp.             | 4 to 5                                 | 500                 | 75                  |  |

Notes:

- 1. Well-established clumps of Prairie grass and Brome grass 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).

|                     |                     | А                                      | Application Rate    |                     |  |  |
|---------------------|---------------------|--|---------------------|---------------------|--|--|
| Common Name         | Scientific Name     | Boom or<br>Directed<br>Sprayer<br>L/ha | Handgun<br>mL/100 L | Knapsack<br>mL/15 L |  |  |
| ANN                 | IUAL WEEDS          |  |                     |                     |  |  |
| Caltrop burr        | Tribulus terrestris | 4 to 5                                 | 500                 | 75                  |  |  |
| Dead nettle         | Lamium amplexicaule | 6                                      | 600                 | 90                  |  |  |
| Lesser canary grass | Phalaris minor      | 4 to 6                                 | 600                 | 90                  |  |  |
| Liverseed grass     | Urochloa panicoides | 1.5                                    | 150                 | 23                  |  |  |
| Variegated thistle  | Silybum marianum    | 6                                      | 600                 | 90                  |  |  |
| Wild oats           | Avena spp.          | 5 to 6                                 | 600                 | 90                  |  |  |
| Wire weed           | Polygonum aviculare | 2 to 5                                 | 500                 | 75                  |  |  |
| PERE                | NNIAL WEEDS         |  |                     |                     |  |  |
| Sida weed           | Sida retusa         | 4 to 5                                 | 500                 | 75                  |  |  |

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#### TRADE ADVICE

#### **Export of Treated Produce**

Growers should note that suitable MRLs or import tolerances might not be established in all markets for produce treated with Guillotine Herbicide. If you are growing produce for export, please check with Crop Culture Pty Ltd for the latest information on MRLs and import tolerances BEFORE using Guillotine Herbicide.

#### **GENERAL INSTRUCTIONS**

Guillotine Herbicide is a non-volatile herbicide with activity against many annual and perennial broadleaf weeds and grasses. Guillotine 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. Guillotine 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**

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

#### **Plastic Mulches**

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

# Compatibility

Guillotine Herbicide is compatible with most residual herbicides e.g. simazine, oxyfluorfen, norfluazuron, and oryzalin, and with glyphosate and metsulfuron-methyl. 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 Crop Culture representative.

# **Mixing**

Guillotine Herbicide mixes easily with water. Clean water should always be used for mixing with Guillotine 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 Guillotine 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

Guillotine 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 nontarget areas.

# Knapsack and Handgun Equipment

Guillotine 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

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stands will require up to 1000 L/ha of spray mixture, whereas less dense stands will require less water. High volume application using hollow-cone nozzles for hand spraying is recommended.

# Controlled Droplet Application (CDA) Equipment

Guillotine 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 Guillotine Herbicide when using CDA equipment.

WARNING: Because the spray solution is highly concentrated particular care must be taken when using Guillotine Herbicide through CDA equipment to avoid contact of the spray solution with any part of the crop trunk or canopy. DO NOT apply Guillotine Herbicide through equipment fitted with bristle skirts. Particular care should be taken when using CDA equipment around green or un-calloused 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.

#### Aircraft

DO NOT apply by aircraft.

#### **RESISTANT WEEDS WARNING**

GROUP N HERBICIDE

Guillotine Herbicide is a member of the phosphinic acid group of herbicides. Guillotine Herbicide has the inhibitor of glutamine synthetase mode of action. For weed resistance management Guillotine Herbicide is a Group N herbicide.

Some naturally occurring weed biotypes resistant to Guillotine Herbicide, and other Group N 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 Guillotine Herbicide or other Group N herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Crop Culture Pty Ltd accepts no liability for any losses that may result from the failure of Guillotine 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

Very toxic to aquatic life. 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 under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

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 un-calloused bark (such as on desirable young trees and vines) or cut, cracked, damaged or wounded tissue, where the affected surface is not adequately healed. Guillotine Herbicide may be used around desirable trees/vines less than 2 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 Guillotine Herbicide.

DO NOT apply Guillotine Herbicide to recently fumigated or sterilised soil.

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#### 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-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 for appropriate disposal 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. DO NOT re-use empty container for any other purpose.

# **SAFETY DIRECTIONS**

Harmful if absorbed by skin contact or swallowed. Will irritate the eyes and skin. Avoid contact with the eyes and skin. 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 gloves and face shield or goggles. If product on skin, immediately wash area with soap and water. If product in eyes, wash out immediately with water. 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**

For further information refer to the Safety Data Sheet (SDS), which is available from the supplier or from the manufacturer's website: www.cropculture.com.au

#### **CONDITIONS OF SALE**

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

In a Transport Emergency Dial 000 Police or Fire Brigade