

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

ChemAg

CHEMAG ROCKSTAR[®] 200

Herbicide

ACTIVE CONSTITUENT: 200g/L FLUROXYPYR present as the methylheptyl ester
SOLVENT: 502 g/L LIQUID HYDROCARBON

GROUP		HERBICIDE
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For control of a wide range of Broadleaf Weeds in Fallow, Lucerne, Maize, Millets, Pastures, Poppies, Sorghum, Sugar Cane, Sweetcorn, Winter Cereals.
Also for the control of Woody Weeds in Agricultural Non-Crop Areas, Commercial and Industrial Areas, Forests, Pastures and Rights-of-Way, as Specified in the Directions for Use.

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DIRECTIONS FOR USE:

RESTRAINTS: DO NOT apply to plants which may be stressed (not actively growing) due to prolonged periods of extreme cold, moisture stress (waterlogged or drought affected), poor nutrition, presence of disease, or previous herbicide treatment as reduced levels of control may result.

Thorough coverage of both foliage and stems, to the point of runoff, is essential for high volume applications (see GENERAL INSTRUCTIONS; APPLICATION METHODS WOODY WEED SITUATIONS section).

DO NOT spray if rain is likely within one hour.

Table 1 Woody Weeds in Agricultural Non-Crop Areas and Rights-of way, Commercial and Industrial Areas, Forests and Pastures

Table 2 Established Grass pastures (Ground and Aerial)

Table 3 Sorghum, Maize, Millets and Sweet corn

Table 4 Winter Cereals (wheat, Barley, Oats and Triticale)

Table 5 Summer Fallow

Table 6 Winter Fallow

Table 7 Sugar cane

Table 8 Lucerne (established only)

Table 9 Poppies

Table 1. Woody Weeds in Agricultural non-crop areas and Rights-of-Way, Commercial and Industrial areas, Forests and Pastures

Legumes present at the time of spraying will be severely damaged.

HIGH VOLUME APPLICATION: Dilute Product with water See General Instructions – Application Method for application details				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE mL/100L of water	CRITICAL COMMENTS
Bathurst burr Noogoora Burr	Seedlings and young plants up to 40cm high	NSW, NT, Qld, WA only	75	
Blank bindweed (Climbing Buckwheat)	Seedling and young plants before flowering	NSW, Qld only	300	
Mimosa pigra	Apply from mid to late summer	NT, WA only	500	Add Uptake® Spraying Oil (See GENERAL INSTRUCTIONS; oils and surfactants.)
Common sensitive plant Bellyache Bush	Seedlings and young plants up to flowering	Qld, WA only		
Blackberry nightshade Bokhara Clover		Qld, NSW, WA only		
Caltrop (yellow vine) (Tribulus terrestris) (T.micrococcus)	Seedlings and young plants up to 30cm diameter.	NSW, Qld only		
Cobblers pegs	Up to 15cm high			
Cockspur thorn	Up to 3m high			
Creeping Lantana	At flowering			
Crofton weed Mistflower	Seedlings and young plants up to flowering			
Docks (Rumex spp.)	Seedlings and rosettes up to 30cm high			
Hexham scent	Seedlings and young plants up to flowering			
Honey locust	Seedlings and young plants up to 2m high			
Small flowered mallow (Marshmallow) (Malva parviflora)	Seedlings and young plants up to flowering.			
Yellowflower Devil's claw	Seedlings and young plants up to flowering			
Lantana	Seedlings and regrowth 0.5 to 1.2m high Plants and regrowth 1.2 to 2m high			
Blue hellotrope	Flowering			
Limebush	Infestations up to 1.5m high only			
Madeira vine	Apply at time of active growth			
Milkweed (Euphorbia heterophylla)	3 leaf to flowering	Qld only	1000	Apply to actively growing plants from October to April. Some regrowth may occur particularly when treating old woody plants with sparse canopies.
Common sowthistle	Seedlings and young plants up to bolting	NSW, Qld only	500	Repeat applications will be necessary to control subsequent germinations.
Mother-of-millions (Kalanchoe spp.)	Seedling and young plants before flowering		600	

Table 1. Woody Weeds in Agricultural non-crop areas and Rights-of-Way, Commercial and Industrial areas, Forests and pastures

HIGH VOLUME APPLICATION: Dilute Product with water See General Instructions – Application Method for application details				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE mL/100L of water	CRITICAL COMMENTS
Prickly acacia	Seedlings and young plants up to 2m high	Qld only	750	Add Uptake Spraying Oil (See GENERAL INSTRUCTIONS; Oils and surfactants). Consult Tropical Weeds Research Centre, Charters Towers, for specific advice on application.
Sida spp.	Seedlings and young plants up to flowering	NSW, NT, Qld, WA only	1000	
Broadleaf Pepper Tree (<i>Schinus terebinthifolius</i>)	Mature leaves, fruiting	Qld only	500	Winter application only. Contact Alan Fletcher Research Station for more information.
Flannel weed (<i>Sida cordifolia</i>)				
Snakeweed, (dark and light blue)	Seedlings and young plants before flowering		750	Add Uptake Spraying oil (see GENERAL INSTRUCTIONS; Oils and surfactants)
Stinking Passion Flower	Established plants and regrowth	Qld, NT, WA only	450	Use 70mL/15L for a knapsack
Wandering jew (<i>Tradescantia albiflora</i>)	Young plants up to and including flowering	All States	1500	Some regrowth will usually occur and will require retreatment.
Wattles (including <i>Acacia aulacocarpa</i> , <i>A. decora</i> , <i>A. harpophylla</i> , <i>A. leiocalyx</i> , <i>A. salicina</i>)	Seedling plants for regrowth 0.5 to 1.2m high	NSW, Qld only	500	Apply to actively growing plants when soil moisture is plentiful. Some regrowth may occur particularly when treating old woody plants with sparse canopies and under dry conditions.
	Plants or regrowth 1.2 to 2.0m high only		1000	

Table 1. Woody Weeds in Agricultural non-crop areas and Rights-of-Way, Commercial and Industrial areas, Forests and pastures

BASAL BARK AND CUT STUMP APPLICATION: Dilute product with diesel See General Instructions – Application Method for application details				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE L/100L of diesel	CRITICAL COMMENTS
<i>Celtis (Celtis sinensis)</i>	Basal Bark only: Young plants up to 2m high and 20cm basal diameter	Qld only	3.5	Treat stems from ground level to where multi-stemmed trunks branch.
<i>Chinee apple</i>	Up to 15cm basal diameter		3	With basal bark, treat circumference of stem to height of 45cm from the ground. Contact The Land Protection Branch, Department of Natural Resources and Mines, Qld for further information on Chinee Apple
<i>Cockspur thorn</i>	Basal Bark only: Up to 5cm basal diameter		2	
<i>Mimosa Bush (Acacia farnesiana)</i>	Up to 5cm basal diameter	Qld, WA only	3	
<i>Prickly acacia</i>	Up to 10cm basal diameter	Qld only	1.5	With basal bark, treat circumference of stem to height of 45cm from the ground. For cut stump application use a rate of 5L/100 diesel for all plant sizes. Contact the Land Protection Branch, Department of Natural Resources and Mines, Qld, for further information on Honey Locust
<i>Honey locust</i>	Plants up to 10cm basal diameter	Qld, NSW only	1.5	
	Plants 10 to 20cm basal diameter		3	
	Plants >20cm basal diameter		5	
<i>Sisal hemp (Agave spp.)</i>	All growth Stages	Qld only	3	Treat as an overall spray. Contact the Land protection branch, Department of Natural Resources and Mines, Qld for advice to control large infestations.
			10mL undiluted product per plant	Lever out centre of plant with crowbar and immediately treat the exposed cut area.
BROADCAST AND AERIAL APPLICATION: Dilute product with water See General Instructions – Application Method for application details				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE L/ha	CRITICAL COMMENTS
<i>Mimosa pigra</i>	Actively growing plants	NT, WA only	3L	Aerial application: Add Uptake Spraying Oil at the rate of 1L/100L spray mix. Apply to actively growing plants from mid to late summer. Contact the Department of Primary Industries and Fisheries, NT for further information.
LOW VOLUME, HIGH CONCENTRATE APPLICATION: Using a drench gun or gas-powered gun See General Instructions – Application Method for application details				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE L/10L of water	CRITICAL COMMENTS
<i>Limebush</i>	Isolated bushes up to 1.2m high only	NSW, Qld only	1	Apply a 50mL dose per 5m ² of bush surface area.
<i>Tree Violet (Hymenanthera dentata)</i>	Apply from late flowering to green fruit up to 1.2m high	NSW only		Apply a 50mL dose per cubic metre of bush.

Table2: Established Grass Pastures

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE L/ha	CRITICAL COMMENTS
Blue Billygoat weed Common sensitive plant Giant sensitive plant Spinyhead sida	Apply before flowering	Qld, WA only	1.5	Add Uptake Spraying Oil at 1L/ha
St John's Wort	Apply from bud to full bloom (usually late Nov to early Jan)	ACT, NSW and Vic only	3	Some regrowth will occur. Treat regrowth the following season for best results. Use at least 200L water/ha
Silverleaf nightshade	From onset of flowering to early berry-set. (usually spring to mid summer)	NSW only	0.75 or 0.375 + 1.2-1.6 Smash 625	Add Uptake Spraying Oil at 1L/ha. To ensure maximum effect, delay application until the majority of shoots have emerged. Follow-up treatment of regrowth is critical for best control

Table 3: Sorghum, Maize, Millets and Sweet Corn (NSW and QLD only)

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE L/ha	CRITICAL COMMENTS
Sorghum	Apply when secondary roots are present, from 4 fully expanded leaves (15 cm tall) up to boot (also see CRITICAL COMMENTS)	Annual ground cherry Wild gooseberry (<i>Physalis spp.</i>)	2 to 8 leaf up to 15cm tall	0.5	<p>Sorghum: From 8 leaf to boot stage, use dropper nozzles to prevent herbicide coming in contact with the crop's leaves and the growing point (meristem)</p> <p>Maize and sweet corn: From 6 leaf to just before tasselling, use dropper nozzles to prevent the herbicide coming in contact with the crop's leaves and the growing point (meristem)</p> <p>Millets: DO NOT use mixes with atrazine products.</p> <p>¹ This treatment may be slightly damaging to the crop. To minimise crop damage apply using dropper nozzles at all crop stages.</p>
			15 to 30cm tall	0.75	
		Apple-of-Peru	Seedling plants up to 15cm tall		
			Bathurst burr Noogoora burr	2 to 8 leaf up to 20cm tall	
Maize and Sweet Corn	Apply when secondary roots are present, from 3 fully expanded leaves (10cm tall) up to just before tasselling (see CRITICAL COMMENTS)	Pigweed (<i>Portulaca oleracea</i>)	20 to 50cm tall	0.75	
			Up to 10cm diameter	0.5	
		Sesbania pea	10 to 30cm diameter	0.75	
			2 to 6 leaf Up to 10cm tall	1.5	
Millets	Spray when secondary roots have developed, usually early to mid-tillering, and not later than before heads start to form at the base of tillers. (See CRITICAL COMMENTS)	Silverleaf nightshade (NSW only) ¹	Full flower to early berry	0.75 + Chemag PRO 700 at 300mL/100L	
		Starburr (<i>Acanthospermum hispidum</i>) (Qld only)	Up to 12 leaf and before flowering	1.5 or 0.75 + 2L Flowable Nu-trazine	
		Thornapples (<i>Datura spp.</i>)	2 to 8 leaf Up to 15cm tall	0.75	
		Volunteer sunflower	2 to 5 leaf Up to 20cm tall	1	

Table 3 (Continued): Sorghum, Maize, Millets and Sweet Corn (NSW and QLD only)

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE L/ha	CRITICAL COMMENTS
Rockstar 200 in tank-mixes with atrazine: Sorghum, Maize and Sweet Corn					
Sorghum, Maize and Sweet corn (Continued)	See above	Amaranthus spp. Including: Boggabri weed, Dwarf amaranth, Green amaranth Redshank Anoda weed Bladder Ketmia Black pigweed (trianthema portulacastrum) Caltrop (yellow vine) Including: Tribulus terrestris T.micrococcus and T.maximus Cowvine (peach vine) (Ipomoea lonchophyllia) Hairy wandering jew (commelina benghalensis) Mintweed	Seedling plants up to 15cm tall or rosettes up to 15cm diameter	0.5 + 1.5 of Flowable Nu-trazine or 0.75 + 2 of Flowable Nu-trazine	<p>Use the low rate (0.5 + 1.5L) when weeds are small (5-7cm tall/diameter).</p> <p>Use the high rate (0.75 + 2L) when the weeds are larger (7-15cm tall/diameter)</p> <p>Rockstar 200 is generally more compatible with Liquid Atrazine products (see GENERAL INSTRUCTIONS; compatibility section).</p> <p>Add a surfactant (see GENERAL INSTRUCTIONS; Oils and surfactants).</p> <p>Do not add an oil to mixtures of Rockstar 200 and Flowable Nu-trazine</p>
		Euphorbia davidii	Cotyledons to 4 nodes up to 15cm	1 + 2 of Flowable Nu-trazine	
		Volunteer peanuts	Up to 15cm diameter	1 + 4.5 of flowable Nu-trazine	
Sweet Corn: Tasmania only					
Sweet corn only	3 to 5 leaf	Blackberry nightshade Volunteer potatoes	3 to 5 leaf	1	

Table 4: Winter Cereals (Wheat, Barley, Oats and Triticale)

CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE L/ha	CRITICAL COMMENTS
Apply from 3 leaf to flag (Zadoks 13 to 39)	Bedstraw (Galium tricornutum)	1 to 3 whorl	Vic, SA, WA only	1	² . Add either LI700 or Activator Surfactant (see GENERAL INSTRUCTIONS; Oils and Surfactants). Useful suppression only. Mixtures: Mixing partners with Rockstar 200 may reduce crop selectivity. Apply at crop growth stages according to the mixing partner's recommendation. Plants 15 to 30cm tall will only be suppressed.
	Cleavers (Galium aparine)		NSW, Vic only		
	Black bindweed (Climbing buckwheat)	2 to 4 leaf	NSW, Qld only	0.5 ²	
		2 to 6 leaf			
	Common sowthistle (Sonchus oleraceus)	2 to 5 leaf		1	
	Deadnettle	2 to 6 leaf		1.5 or 0.5 + 5g Associate/brushkiller ²	
	Spiny emex (Doublegee, Three cornered Jack)	2 to 4 leaf	NSW, SA, Qld, WA only	5g Associate/brushkiller ²	
	Prickly lettuce	2 to 5 leaf	NSW, Qld, Tas, Vic, WA only	1	
	Volunteer Lupins	2 to 8 leaf	NSW, Vic, WA only	1.5	
	Volunteer potato	10 to 15cm tall	WA and Tas only		
	Wireweed	2 to 3 leaf	NSW, Qld, SA, Tas, Vic, WA only	0.5 + 5g Associate/Brushkiller ²	
			NSW and Qld only		
Bittercress (<i>Coronopus didymus</i>) Mustards Shepherd's purse Turnip weed Wild Radish Wild turnip	Up to 8 leaf and up to 15cm diameter	Qld, NSW, Vic, SA, Tas, WA only	0.5 to 1.5 + Associate/Brushkiller ² or Eclipse ² or CHEMAG LVE MCPA or Chemag MCPA 500	The Rockstar 200 rate depends on what other weeds are present as listed above. See Mixtures comment above. Associate [®] /Brushkiller [™] @ 5g/ha (this mix does not control wild radish). Eclipse* @ 5-7g/ha (use the 5g rate on Turnip weed only) LVE MCPA @ 700mL/ha MCPA 500 @ 1.0L/ha	

Table 5: Summer Fallow

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE L/ha	CRITICAL COMMENTS
Annual Ground cherry Wild gooseberry (<i>Physalis spp.</i>)	2 to 8 leaf, up to 15cm tall	NSW, Qld only	0.75 ³	² . Add Uptake Spraying Oil (See GENERAL INSTRUCTIONS; Oils and surfactants section) When mixing with Chemag Eradicator 450, Roundup CT, Credit plus Bonus or Roundup PowerMAX to control both grass and broadleaf weeds; refer to the label for use rates and adjuvants recommended for the grasses) See GENERAL INSTRUCTIONS; Compatibility sections). Do not add an adjuvant to mixtures contains Credit and Bonus
Bathurst burr Noogoora burr	2 to 8 leaf, up to 20cm tall	NSW, Qld, Vic, WA only		
Bellvine	Pre-flowering	NSW, Qld only	0.5 + 1.2 Chemag Eradicator 450 or Roundup CT or 1L Credit plus 1L Bonus or 1L Roundup PowerMAX	
Bladder ketmia	4 to 8 leaf, up to 10cm tall			
Cowvine (Peach vine) <i>Ipomoea lonchophylla</i>	2 to 10 leaf up to 10cm diameter		0.5 + 1.0 Chemag Eradicator 450 or Roundup CT or 830mL Credit plus 830mL Bonus or 830mL Roundup PowerMAX	
Caltrop (Yellow vine) including: <i>Tribulus terrestris</i> , <i>T.maximus</i> and <i>T.micrococcus</i>	Up to 15cm diameter		0.75 ²	
Pigweed (<i>Portulaca oleracea</i>)	Up to 10cm diameter		0.75 + 1.0 Chemag Eradicator 450 or Roundup CT or 830mL Credit plus 830mL Bonus or 830mL Roundup PowerMAX	
	Up to 60cm diameter			
<i>Polymeria pusilla</i>	2 to 10 leaf up to 20cm diameter		1 ² or 0.5 + 1.2 Chemag Eradicator 450 or Roundup CT or 1L Credit plus 1L Bonus or 1L Roundup PowerMAX	
Rhynchosia	Seedlings to early flowering		1 ² or 0.375 + 0.8 Chemag Eradicator 450 or Roundup CT or 670mL Credit plus 670mL Bonus or 670mL Roundup PowerMAX	
Smallflower mallow or Marshmallow (<i>Malva parviflora</i>)	Up to 8 leaf up to 20cm		1 ²	
Thornapples (<i>Datura spp.</i>)	2 to 8 leaf up to 15cm diameter	NSW, Qld, WA only	0.75 or 0.5 + 1.2 Chemag Eradicator 450 or Roundup CT or 1L Credit plus 1L bonus or 1L Roundup PowerMAX	
Sesbania pea	2 to 6 leaf up to 10cm	NSW, Qld only	1.5 ² or 0.5 + 1.2 Chemag Eradicator 450 or Roundup CT or 1L Credit plus 1L bonus or 1L Roundup PowerMAX	

Table 5: Summer Fallow

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE L/ha	CRITICAL COMMENTS
Perennial Ground Cherry (<i>Physalis virginiana</i>) ¹	Bud to early flowering up to 20cm tall	NSW, Qld only	1.5 or 3 ²	3. Delay treatment until the maximum number of shoots have emerged, but before the onset of fruiting (late summer) DO NOT treat plants showing symptoms from previous treatment. Use the high rate when longer term weed control (6-10 months) is required and delay planting crops during this period. The low rate will require follow-up treatments.
Silverleaf nightshade	Full flower to early berry-set (usually Dec – Feb)	NSW only	0.75 or 0.375 + 1.2-1.6 Smash 625	Add PRO 700 at the rate of 300mL/100L spray mixture To ensure maximum effect, delay application until the majority of shoots have emerged. Follow-up treatment will be required to control regrowth and is critical for optimal control. If wanting to prevent seed set repeat applications may be needed in the same season, although this does not lead to better long term control.
Volunteer peanuts	Up to 15cm diameter	Qld only	1 + 4.5 Flowable Nu-trazine	Add Chemwet 1000 (See GENERAL INSTRUCTIONS; oils and surfactants) Important: see GENERAL INSTRUCTIONS; Compatibility section
Volunteer sunflowers	2 to 5 leaf up to 20cm	NSW, Qld only	1	Add PRO 700 (See GENERAL INSTRUCTIONS; Oils and surfactants section).

Table 6: Winter Fallow

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE L/ha	CRITICAL COMMENTS
Bedstraw (<i>Galium tricorutum</i>)	Up to 5 whorl	Vic, SA, WA only	1 ²	² Add PRO 700 (see GENERAL INSTRUCTIONS; Oils and surfactants section) ³ Add PRO 700 or Chemwet 1000 (see GENERAL INSTRUCTIONS; Oils and surfactants section)
Cleavers (<i>Galium aparine</i>)		NSW, Vic only		
Black bindweed (<i>Climbing buckwheat</i>)	2 to 8 leaf up to 10cm diameter	NSW, Qld only	0.75 ²	When mixing with Chemag Eradicator 450 or Roundup CT to control both grasses and broadleaf weeds, refer to the label for use rates and adjuvants recommended for the grasses (see GENERAL INSTRUCTIONS; Compatibility section) Do Not add an adjuvant to mixtures containing Credit and Bonus.
Common sowthistle (<i>Sonchus oleraceus</i>)	2 to 5 leaf up to 10cm diameter		1.0 ² or 0.5 + 0.6 Chemag Eradicator 450 or Roundup CT or 500mL Credit plus 500mL Bonus or 500mL Roundup PowerMAX	
Prickly lettuce				
Spiny emex (Doublegee, Three cornered Jack)	2 to 8 leaf		1.5 ² or 0.5 ³ + 5g Associate/brushkiller	
Wireweed	2 to 3 leaf up to 10cm tall	1.5 ² or 0.5 ³ + 5g Associate/brushkiller or 0.5 ³ + 0.6 Chemag Eradicator 450 or Roundup CT or 500mL Roundup PowerMAX		

Table 7: Sugar Cane (Qld, NSW, NT and WA only)

CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE L/ha	CRITICAL COMMENTS
From early tillering to maturity	Balsam pear Blackberry nightshade Blue billygoat weed Centro Cowpea Giant sensitive plant Lablab bean Noogoora Burr Phasey bean Pinkburr Prickly African cucumber Spinyhead sida Stinking passion flower (seedlings only)	Apply from 2 to 3 leaf until flowering	Ground: 1.3 Aerial: 1.5	For optimal weed control, delay application until just before the "close-in" stage. Aerial application: Apply in not less than 60L/ha water and add Chemag PRO 700 at 300mL/100L spray mixture Ground application: Apply in 100-400L/ha water and add PRO 700 at 300mL/100L of spray mixture
	Bellvine Morning glory Red or pink convolvulus Star-of-Bethlehem		As above + 800 mL Smash 625	
	Stinking passion flower	Established or ratoon plants with at least 1.0m of regrowth	High volume: 450mL/100L water Knapsack: 70mL/15L water	Thoroughly wet plants to the point of run-off
	Milkweed (<i>Euphorbia heterophylla</i>)	Seedlings and young plants up to flowering	3 or 2.3 + 4 Flowable Nu-trazine	Better control will be achieved with the atrazine mixture. Delay application until just before the cane reaches the "close-in" stage. This will improve control and minimise the number of seedling that germinate.

Table 8: Lucerne (NSW only)

CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE L/ha	CRITICAL COMMENTS
Established crops at least eighteen months old	Annual ground cherry Bathurst burr Noogoora burr Wild gooseberry	2 to 8 leaf up to 15cm high	0.5	To minimise crop injury and to maximise weed control, cut, slash or heavily graze the lucerne before application. Wherever possible, irrigate before application to stimulate weed growth. DO NOT treat crops growing on sandy or stony soils. DO NOT treat crops after the summer growing season (after end of March). To broaden the spectrum of weeds controlled, Rockstar 200 can be mixed with Buttress or Buticide.
	Pigweed	Up to 10 cm diameter		

Table 9: Poppies (TAS only)

CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE L/ha	CRITICAL COMMENTS
4 to 6 leaf	Cleavers Fumitory	2 to 6 leaf	1	
	Shepherd's purse Wireweed		1+5 Asulox	
8-10 leaf	Common sowthistle Prickly lettuce	2 to 5 leaf	1	DO NOT apply Rockstar 200 to poppies later than the 8 to 10 leaf growth stage as a reduction of alkaloid content could occur
	Black nightshade	Cotyledon to 4 leaf	1.5	
	Fumitory	6 to 10 leaf		
	Volunteer potato	From tuber initiation to flower bud		This rate will provide season long control of volunteer potato, but will not control all daughter tubers and will only suppress potatoes over 15cm tall.

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 FAILED CROPS AND TREATED PASTURES OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.

Harvest:

Poppies – DO NOT SPRAY POPPIES LATER THAN 10 WEEKS BEFORE HARVEST

Other Crops – Not required when use as directed.

MINIMUM RECROPPING PERIODS

Plant-back periods for crops following the application of Rockstar 200 for rates up to 1.5L/ha.

RATE L/HA	0.375	0.75	1.5
CROP	DAYS		
Barley	7	7	7
Wheat	7	7	7
Chickpea	7	7	7
Cotton	14	14	28
Soybean	7	7	14
Sunflower	7	7	7
Maize	7	7	7
Sorghum	7	7	7

Note: Before using Rockstar 200 in tank mixes with other herbicides, check the plant-back information on all product labels. The time between spraying and planting will be determined by the most residual product, ie. The product with the longest plant-back period.

GENERAL INSTRUCTIONS:

MIXING

ChemAg Rockstar 200 may be mixed with water or diesel.

Mix only sufficient chemical for each days use and avoid storing.

Mixing in Water: Half fill the spray tank with water and add the required quantity of ChemAg Rockstar 200 and complete filling. Agitate continuously to ensure thorough mixing before and during application.

Mixing in Diesel: Half fill the spray tank with diesel and add the required quantity of ChemAg Rockstar 200. Add the remainder of the diesel and agitate or shake to mix contents.

Tank mixtures: Wettable powder or dry flowable formulations (eg water dispersible granules) should be added to the spray tank first, followed by suspension concentrates (Flowables), water soluble salts and then emulsifiable concentrate formulations (ChemAg Rockstar 200). Add spraying oils and surfactants (wettters) last.

OILS AND SURFACTANTS

Oils:

Where specified use Uptake Spraying Oils at the rate of 500mL/100L of spray mix. When using less than 100L/ha spray volume, ensure a minimum of 250mL/ha of Uptake Spraying Oil is used, unless 1L/100L or 1L/ha is specified.

Surfactants (wettters):

PRO 700 to be used at 300mL/100L.

Spraymate Activator to be used at 125mL/100L.

Use a 100% concentrate non-ionic surfactant such as Chemwet 1000 at 100mL/100L of spray mix where required.

COMPATIBILITY

ChemAg Rockstar 200 is compatible with the herbicides listed.

Follow any regional restrictions, and all directions and restriction on the label, of any product mixed with ChemAg Rockstar 200.

Flowable Nu-Trazine Associate [®] /Brushkiller [™]	Topik* 240 EC (see below)
	Tordon* 75-D
	Tordon 242
Broadstrike*	Touchdown*
Eclipse*	Amicide [®] 625
Nugrass [®]	Buttress [®]
Invader [®] 600	Buticide
Archer [™]	Credit [®]
Chemag MCPA 500	Chemag 500 LVE
	MCPA
Puma* S	Bonus [®]
Chemag Eradicator 450	Roundup CT
	Roundup PowerMAX [™]

ATRAZINE

AVOID USING HARD WATER WHEREVER POSSIBLE.

Where hard water cannot be avoided, the addition of CALGON* water conditioning agent to the spray tank,

at 100g/100L water, before adding any herbicide may improve compatibility.

AGITATION IS VERY IMPORTANT WHEN MIXING CHEMAG ROCKSTAR 200 AND ATRAZINE.

ChemAg Rockstar 200 plus atrazine tank mixes must be agitated vigorously and continuously during mixing and application. After mixing DO NOT allow to stand without agitation. Ensure that the time from mixing to the end of application is not more than 2 hours. If settling out occurs re-suspension is difficult, even with vigorous agitation. Agitation using only the pumps bypass is usually inadequate, particularly with larger tanks (more than 2000L). Additional mechanical agitation will be necessary in large tanks, computer sprayers and mixing tanks.

When additional surfactant is required, add Chemwet 1000 at 100mL/100L of spray mix. DO NOT use a spraying oil when tank mixing ChemAg Rockstar 200 and Atrazine.

Guidelines for tank-mixing Rockstar and Nu-trazine formulations:

Tank Mix	Rate (L/ha)	Water Hardness			Min. Water Volume (L/ha)		Comments
		Soft	Med	Hard	Ground	Aerial	
Superstar 200 + Nu-trazine 900 OF	0.75 + 1.1	✓	x	x	100	Do not use	Sediment may be difficult to resuspend and may block nozzles.
Superstar 200 + Flowable Nu-trazine	0.75 + 2.0	✓	✓	x	100	Do not use	Fractionate may be difficult to resuspend and may block nozzles.

Topik 240 EC

Always use Uptake Spraying oil with ChemAg Rockstar 200 + Topik 240 EC tank-mixes at 500mL/100L of spray mix with a minimum of 250mL/ha.

DO NOT mix ChemAg Rockstar 200 with Topik 240 EC if the grass weeds are not actively growing. Always use the maximum label rate of Topik 240 EC for the appropriate grass growth stage.

DO NOT use ChemAg Rockstar 200 at more than 0.75L/ha in tank mixes with Topik 240 EC.

Chemag Eradicator 450/Roundup CT/ Credit plus Bonus/ Roundup PowerMAX

When mixing ChemAg Rockstar 200 with one of these products to control both grass and broadleaf weeds, refer to that label for use rate and adjuvants recommended for grasses. DO NOT use Chemag Eradicator 450 or Roundup CT at less than 1.2L/ha in tank mixes with ChemAg Rockstar 200 or Credit plus Bonus at less than 1L/ha of each or Roundup PowerMAX at less than 1L/ha, when barnyard grass, buttongrass, crowsfoot grass, native millet and liverseed grass are target species.

APPLICATION METHODS and WATER RATES

BROADCAST APPLICATION IN CROPPING, PASTURE AND FALLOW SITUATIONS.

A. Ground application (Boom)

Apply ChemAg Rockstar 200 with an accurately calibrated boom sprayer, in at least 50L/ha water (100-400L/ha for sugar cane).

Flat fan nozzles are recommended using pressures in the range 200-300kPa.

Set the boom at a height to ensure a double overlap of the nozzle patterns

B. Ground direct application (Dropper nozzles)

To minimise crop effects, dropper nozzles should be used in sorghum when the crop is beyond the 8 leaf growth stage and in maize and sweet corn when the crop is beyond the 6 leaf growth stage.

Adjust the nozzles to direct the spray into the base of the crop and away from the leaves and the growing point. See manufacturers directions for setting up and calibration of dropper nozzles.

C. Aerial Application

Apply in a minimum volume of at least 35L/ha water (60L/ha in sugar cane)

Use equipment calibrated to produce droplets with an average diameter (Volume Mean Diameter: VMD) of 250-350 microns.

DO NOT apply when the temperature is above 30°C, when there is no wind or when the wind is blowing toward susceptible crops.

DO NOT use human flaggers unless they are protected by engineering controls such as enclosed cabs.

WOODY WEED SITUATIONS

Weeds must be actively growing to attain optimal effect. Delay the treatment of regrowth following bulldozing, slashing, burning, ploughing or a previous chemical treatment until it has at least 1 metre of new, vigorous growth.

A. High Volume Application

Hand Gun

Apply the recommended mix to obtain full coverage of leaves and stems using a number 6-8 tip at 700 to 1500 kPa. To obtain good coverage, a spray volume of 1500 to 4000L/ha (15 to 40L/100m²) is required per infested hectare.

Ensure thorough coverage to the point of runoff.

Knapsack

Knapsack sprayers may be used on smaller infestations where penetration and coverage of the canopy is easier to achieve. Use the same use rate and spray techniques as for handgun application.

B. Low Volume, High Concentrate Application Drench Gun or Gas-Powered Gun

Apply the recommended mixture uniformly across the foliage by applying 50mL shots to cover 4 to 5m² of surface area of plant. This is approximately equivalent to 20 droplets per cm² of the leaf surface. Use a marking agent as recommended by the equipment manufacturer to check spray coverage.

C. Basal Bark and Cut Stump Application Basal Bark

DO NOT apply to wet stems as this can repel the diesel mixture. Spray or paint the recommended mixture around the base of each stem from ground level to a height of at least 30cm from the ground, wetting the bark to the point of runoff.

Apply with a paint brush or a pressure sprayer with an appropriate lance and solid cone nozzle. If using spray equipment use low pressures (=200kPa) sufficient to form a cone of spray.

Old rough bark will require more spray than smooth or young thin bark.

Cut Stump

Apply the recommended mixture liberally to the freshly cut stump immediately after cutting. Apply by spraying or painting the cut surface and sides of the stump. Best results are obtained when the stems are cut less than 15cm above the ground.

CLEANING SPRAY EQUIPMENT

Rinse water should be discharged onto a designated disposal area or, if this is unavailable, onto wasteland away from desirable plants and watercourses.

Cleaning equipment after using water-based sprays:

Rinsing: After using ChemAg Rockstar 200, empty the tank completely and drain the whole system. Thoroughly wash inside the spray unit using a pressure hose. Drain, and clean any filters in the tank, pump, lines, hoses and nozzles.

After cleaning the tank as above, quarter fill with clean water and circulate through the pump, lines and nozzles. Drain and repeat the rinsing procedure twice.

Decontamination (before spraying cotton and other sensitive crops; see PROTECTION OF CROPS):

Wash the tank and rinse the system as above. Then quarter fill the tank and add an alkali detergent such as Spray mate Tank and Equipment Cleaner at 500mL/100L or water and circulate throughout the system for at least 15 minutes. Drain the whole system. Remove filters and nozzles and clean them separately. Finally flush the system with clean water and allow to drain.

Cleaning equipment after using diesel-based sprays:

On completion of spraying, use a degreaser such as Caltex Kwik-D-Grease* to remove traces of diesel from the sprayer. Rinse tank and spray through nozzles with water to remove degrease.

Then, quarter fill the tank with clean water and add an alkali detergent such as Spraymate Tank and Equipment Cleaner at 50mL/10L of water. Shake sprayer to circulate the washing solution throughout the sprayer, then spray the solution through the nozzles. Rinse well with clean water to remove the detergent.

To clean brushes and containers, spray liberally with degreaser. Hose off with clean water and repeat using detergents as above.

DO NOT use this equipment for any other purpose.

RESISTANT WEEDS WARNING

GROUP	I	HERBICIDE
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Chemag Rockstar 200 Herbicide is a member of the pyridine group of Herbicides. Chemag Rockstar 200 Herbicide has a disrupters of plant cell growth mode of action. For weed resistance management Chemag Rockstar 200 is a Group I Herbicide. Some naturally occurring weed biotypes resistant to Chemag Rockstar 200 and other Group I 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 Chemag Rockstar 200 or other Group I herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Chemag Pty 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 or Chemag Pty Ltd representative.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Susceptible crops include but are not limited to clovers, cotton, fruit, hops, lupins, ornamentals, peas, pine trees, potatoes, navy beans, safflower, shade trees, soybeans, sunflower, tobacco. Tomatoes, vegetables, and vines.

Chemag Rockstar 200 can be damaging to Susceptible crops during growing and dormant periods. Grasses are normally unaffected by Chemag Rockstar 200 and establish quickly after Treatment. Transitory damage can occur on some species particularly those that spread by stolons such as couch grass (*Cynodon dactylon*), Kikuyu grass and carpet grass (*Axonopus* sp.).

DO NOT allow spray to drift onto susceptible crops, Shade trees and *Pinus* spp.

DO NOT use under wether conditions or from spraying equipment, which could be expected to cause spray to drift on to nearby susceptible plants.

PROTECTION OF LIVESTOCK

DO NOT graze or cut treated crops for stock food except as specified under withholding periods.

Poisonous plants may become more palatable after spraying.

DO NOT allow stock to re-enter paddocks containing treated poisonous plants, until the plants have died down.

PROTECTION OF WILDLIFE, FISH CRUSTACEANS AND ENVIRONMENT

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

Alongside waterways, treat only noxious weeds and Poisonous plants.

STORAGE AND DISPOSAL

1L, 5L, 20L, 200L

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 recycle 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 500mm 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.

Envirodrum 110L Mini Bulk Returnable Container:

Store the original sealed Envirodrum in a cool well ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with 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 empty Envirodrum to the point of purchase. The Envirodrum remains the property of Chemag Pty Ltd.

SMALL SPILL MANAGEMENT

Wear protective equipment (See SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, clay granules or call litter to the spill. Sweep up material for disposal when absorption is completed and contain in a refuse vessel for disposal (See STORAGE AND DISPOSAL section). If necessary, wash the spill area with an alkali detergent and water and absorb as above the wash liquid for disposal.

SAFETY DIRECTIONS

Avoid contact with eyes and skin. When opening the container, preparing the spray and

Using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves, a face shield or goggles. Wash hands after use. After each day's use wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (**Phone 13 11 26**). If swallowed, DO NOT induce vomiting. Give a glass of water.

MATERIAL SAFETY DATA SHEET

For further information refer to the Material safety Data Sheet (MSDS).

CONDITIONS OF SALE

Chemag Pty Ltd shall not be liable for any loss, injury, damage or death whether consequential or otherwise whatsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on Chemag's skill or judgement in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Chemag has any authority to add to or alter these conditions.

APVMA Approval No:

In case of emergency: Phone (08) 93687444

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