READ SAFETY DIRECTIONS BEFORE OPENING OR USING



HERBICIDE

ACTIVE CONSTITUENT: 333 g/L FLUROXYPYR as the methyl ester

GROUP I HERBICIDE

For the control of a wide range of Broadleaf weeds in Fallow, Lucerne, Maize, Millets, Pastures, Poppies, Sorghum, Sugar cane, Sweet corn, 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.

IMPORTANT: READ THE ATTACHED BOOKLET BEFORE USE.

Pack Sizes: 5 L, 20 L, 100 L, 110 L, 1000 L

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone: Australia 13 11 26. New Zealand 0800 764 766.

SAFETY DIRECTIONS

- Will irritate the eyes and skin. Avoid contact with eyes and skin.
- Repeated exposure may cause allergic disorders.
- When opening the container, and preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, (when using the spray for high volume applications with a hand gun or knapsack wear cotton overalls, over normal clothing, buttoned to the neck and wrist and a washable hat) and elbow-length PVC gloves, a face shield or goggles.

- After each day's use, wash gloves, face shield or googles and contaminated clothing.
- Wash hands after use.

SAFETY DATA SHEET

Additional information is listed on the Safety Data Sheet for STARANE® ADVANCED® HERBICIDE which is available from Corteva Agriscience on request. Call Customer Service Toll Free on 1-800 700 096 or visit www.corteva.com.au



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Visit us at corteva.com.au

EMERGENCY RESPONSE (ALL HOURS) RING FROM ANYWHERE IN

AUSTRALIA 1800 370 754 (LOCAL CALL FEE ONLY)

IN A TRANSPORT EMERGENCY ONLY DIAL 000 FOR POLICE OR FIRE BRIGADE

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 (1) hour.

1. WOODY WEED SITUATIONS

Table A: High Volume Spraying: Dilute product with water.

See GENERAL INSTRUCTIONS – APPLICATION section for APPLICATION METHOD details.

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

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS (including SOFTWOOD PLANTATIONS), PASTURES AND RIGHTS-OF-WAY				
WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /100 L WATER	CRITICAL COMMENTS	
Bathurst burr (Xanthium spinosum)	Seedlings and young plants up to 40 cm high	45 mL		
Bellyache bush (<i>Jatropha gossypiifolia</i>)	Seedlings and young plants up to flowering	300 mL		
Blue heliotrope (Heliotropium amplexicaule)	Flowering	600 mL		
Black bindweed (Climbing buckwheat) (Fallopia convolvulus)	Seedlings and young plants before flowering	180 mL		
Blackberry nightshade (Solanum nigrum) Bokhara clover	Seedlings and young plants up to flowering Seedlings and young plants	300 mL		
(Melilotus albus)	up to flowering			
Broad-leaf pepper tree (Schinus terebinthifolius)	Mature leaves, fruiting	300 mL	Winter application only. Contact Ecosciences Precinct, Biosecurity Qld, for more information.	
Caltrop (Yellow vine) (Tribulus terrestris) (T. micrococcus)	Seedlings and young plants up to 30 cm diameter			
Cobblers pegs (Bidens pilosa)	Up to 15 cm high			
Cockspur thorn (Maclura cochinchinensis)	Up to 3 m high			
Common sensitive plant (Mimosa pudica)	Seedlings and young plants up to flowering		Add Uptake® Spraying Oil (see GENERAL INSTRUCTIONS; OILS and SURFACTANTS section).	
Common sowthistle (Sonchus oleraceus)	Seedlings and young plants up to bolting		Add a surfactant (see GENERAL INSTRUCTIONS; OILS and SURFACTANTS section).	
Creeping lantana (Lantana montevidensis)	At flowering		,	
Crofton weed (Ageratina adenophora)	Seedlings and young plants up to flowering			
Docks (Rumex spp.)	Seedlings and rosettes up to 30 cm high			
Flannel weed (Sida cordifolia)				
Giant sensitive tree (Mimosa pigra)	Apply from mid to late summer.	180 mL	Add Uptake [®] Spraying Oil (see GENERAL INSTRUCTIONS; OILS and SURFACTANTS section).	
Hexham scent (Melilotus indicus)	Seedlings and young plants up to flowering 300 m		Boom spray: Starane® Advanced at 180 mL/ha +400 mL/ha of 2,4-D Amine (625 g/L)	
Hiptage (<i>Hiptage benghalensis</i>)	Seedlings plants up to 1.3 m high			

Hanaylaayat	Condings and very plants		1
Honey locust	Seedlings and young plants		
(Gleditsia triacanthos)	up to 2m high		
Lantana	Seedlings and regrowth 0.5 to		Apply to actively growing plants from
(Lantana camara)	1.2m high		October to April. Some regrowth may
	Plants and regrowth 1.2 to	600 mL	occur particularly when treating old
	2 m high		woody plants with sparse canopies.
Limebush	Infestations up to 1.5m high		
(Eremocitrus glauca)	only		
Madeira vine	Apply at time of active growth	300 mL	
(Anredera cordifolia)			
Milkweed	3 leaf to flowering	600 mL	Repeat applications will be necessary to
(Euphorbia heterophylla)	_		control subsequent germinations.
Mistflower	Seedlings and young plants	300 mL	
(Ageratina riparia)	up to flowering.		
Mother-of-millions	Seedling and young plants	360 mL	Add a surfactant (see GENERAL
(Bryophyllum spp.)	before flowering		INSTRUCTIONS; OILS and
(=-,, -,,,,,,,	201010 He Worling		SURFACTANTS section).
Noogoora burr	Seedlings and young plants	45 mL	CONTROL TRATE COCCONT.
(Xanthium pungens)	up to 40 cm high	40 IIIL	
Ochna	Plants up to 2 m high	600 mL	-
(Ochna serrulate)	Plants up to 2 m nigh	600 IIIL	
Paddy's lucerne	Active growth		Plants which have been continually
	Active growth		
(Sida rhombifolia)			slashed or grazed over many seasons
			may be difficult to control and regrowth
			may occur.
Prickly acacia	Seedling and young plants up	450 mL	Add Uptake® Spraying Oil (see GENERAL
(Vachellia nilotica)	to 2 m high that are actively		INSTRUCTIONS; OILS and
	growing.		SURFACTANTS section). Consult
			Tropical Weeds Research Centre,
			Biosecurity Qld, Charters Towers for
			specific advice on application.
Scrub nettle (Perennial)	Flowering plants up to 1 m	300 mL	
(Urtica incisa)	high		
Siam weed	Plants up to 2 m high and up	210 mL	
(Chromolaena odorata)	to flowering		
Sida	Seedlings and young plants	600 mL	
(Sida spp.)	up to flowering.		
Silverleaf nightshade	From onset of flowering to	300 mL	To ensure maximum effect, delay
(Solanum elaeagnifolium)	early berry set (usually spring	000 1112	application until the majority of shoots
(Geranam eraeagrimenam)	to mid-summer)		have emerged. Follow-up treatment of
	to mia-summer)		regrowth is critical for best control.
Small flowered mallow	Seedlings and young plants		regrowth is childar for best control.
(Marshmallow)			
(Malva parviflora)	up to flowering		
Snakeweed	Coodling and young plants	450 ml	Add Untaka® Caraving Oil (ago OFNEDA)
	Seedling and young plants	450 mL	Add Uptake® Spraying Oil (see GENERAL
(Dark and light blue) (Stachytarpheta spp.)	before flowering		INSTRUCTIONS; OILS and
	 	200	SURFACTANTS section).
St. John's wort	Flowering to early seed set	300 mL	Late spring to early summer.
(Hypericum perforatum)	E-t-blish - 1 1 1	070	
Stinking passion flower	Established plants and	270 mL	
(Passiflora foetida)	regrowth		
Wandering Jew	Young plants up to and	900 mL	Some regrowth will usually occur and will
(Tradescantia albiflora)	including flowering.		require re-treatment.
Wattles including;	Seedling plants or regrowth	300 mL	Apply to actively growing plants when
Acacia aulacocarpa	0.5 to 1.2m high		soil moisture is plentiful. Some regrowth
A. decora	Plants or regrowth 1.2 to 2.m	600 mL	may occur particularly when treating old
A. harpophylla	high only		woody plants with sparse canopies and
A. leiocalyx	• '		under dry conditions.
A. salicina)			
White lupin	Young plants up to and	300 mL	
(Lupinus albus)	including flowering.	550 IIIL	
Yellow-flowered devil's	Seedlings and young plants		
claw	up to flowering		
(Ibicella lutea)	ap to nowering		
(INIOCIIA IAICA)	i l		

Table B: Aerial Application

See GENERAL INSTRUCTIONS - APPLICATION section for APPLICATION METHOD details.

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS, PASTURES AND RIGHTS-OF-WAY						
WEEDS CONTROLLED	WEED GROWTH STAGE	RATE (/ha)	CRITICAL COMMENTS			
Giant sensitive tree (Mimosa pigra)	Actively growing plants	1.8 L	Add Uptake® Spraying Oil at the rate of 1 L/100 L spray mix. Apply to actively growing plants from mid to late summer. Contact the Department of Land Resource Management, NT for further information.			

Table C: Basal Bark Application

Dilute product with diesel or Biosafe only.

See GENERAL INSTRUCTIONS - APPLICATION section for APPLICATION METHOD details.

	AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS (including SOFTWOOD PLANTATIONS), PASTURES AND RIGHTS-OF-WAY				
WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /100 L of diesel or Biosafe ¹	CRITICAL COMMENTS		
Broad-leaf pepper tree (Schinus terebinthifolius)	Plants up to 5 cm basal diameter	2.1 L			
Calotrope (Calotropis procera)	Plants up to 3 m high and 10 cm basal diameter	3 L	Plants should be cut as close to the ground (5 cm) as possible for reliable results.		
Chinee apple (Ziziphus mauritiana)	Up to 15 cm basal diameter	1.8 L	Treat circumference of stem to a height of 45 cm from the ground. Contact the Department of Agriculture & Fisheries, Qld, for further information.		
Chinese celtis (Celtis sinensis)	Young plants up to 2 m high and 20 cm basal diameter	2.1 L	Treat stems from ground level to where multi-stemmed trunks branch.		
Cockspur thorn (Maclura cochinchinensis)	Up to 5 cm basal diameter.	1.2 L			
Giant sensitive tree (Mimosa pigra)		1 L	Apply during active growth periods.		
Honey locust (Gleditsia triacanthos)	Plants up to 10 cm basal diameter	900 mL	Treat circumference of stem to a height of 45 cm from the ground.		
	Plants 10 to 20 cm basal diameter	1.8 L	Contact the Department of Agriculture &		
	Plants >20 cm basal diameter	3 L	Fisheries, Qld, for further information.		
Madeira Vine (Anredera cordifolia)	Aerial and ground tubers	2.1 L	Always treat vines away from the host tree as injury to the host tree may occur.		
Mimosa bush (Acacia farnesiana)	Up to 5 cm basal diameter	1.8 L	, ,		
Ochna (Ochna serrulate)	Plants up to 2 m high and 10 cm basal diameter	2.1 L			
Pond apple (Annona glabra)	Plants up to 20 cm basal diameter	900 mL	DO NOT apply to trees growing in a body of water. Treat circumference of stem to a height of 50 cm from the ground wetting thoroughly to allow the spray mix to soak through the bark.		
Prickly acacia (Vachellia nilotica)	Up to 10 cm basal diameter				
Siam weed (Chromolaena odorata)	Plants up to 2.5 m high and 10 cm basal diameter	900 mL			
Sisal hemp (Agave spp.)	All growth stages	1.8 L	Treat as an overall spray. Contact the Department of Agriculture & Fisheries, Qld, for advice to control large infestations.		
1 Biocofe may be used		6 mL undiluted product per plant	Lever out centre of plant with crowbar and immediately treat the exposed cut area.		

¹ Biosafe may be used as an alternative carrier to diesel. For alternative biodiesel products, first seek advice from Corteva Agriscience.

Table D: Cut Stump/ Brushcutter Application

Dilute product with diesel or Biosafe only.

See GENERAL INSTRUCTIONS - APPLICATION section for APPLICATION METHOD details.

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS (including SOFTWOOD PLANTATIONS), PASTURES AND RIGHTS-OF-WAY					
WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /100 L of diesel ¹	CRITICAL COMMENTS		
Calotrope (Calotropis procera)	Plants up to 3 m high and 10 cm basal diameter	3 L	Plants should be cut as close to the ground (5 cm) as possible for reliable results.		
Chinee apple (Ziziphus mauritiana)	Up to 15 cm basal diameter	1.8 L	Contact the Department of Primary Industries & Fisheries, Qld, for further information.		
Giant sensitive tree (Mimosa pigra)		1 L	Apply during active growth periods.		
Hiptage (Hiptage benghalensis)	Plants greater than 1.3 m high	2 L	Plants should be cut as close to the ground (5 cm) as possible for reliable results.		
Mimosa bush (Vachellia farnesiana)	Up to 5 cm basal diameter	1.8 L			
Prickly acacia (Vachellia nilotica)	Up to 10 cm basal diameter	900 mL			
Honey locust (Gleditsia triacanthos)	All plants up to and greater than 20 cm basal diameter	3 L	Contact the Department of Agriculture & Fisheries, Qld, for further information.		

¹ Biosafe may be used as an alternative carrier to diesel. For alternative biodiesel products, first seek advice from Corteva Agriscience.

Table E: Low Volume, High Concentrate Application

Using a drench gun or gas-powered gun.

See GENERAL INSTRUCTIONS - APPLICATION section for APPLICATION METHOD details.

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS (including SOFTWOOD PLANTATIONS), PASTURES AND RIGHTS-OF-WAY						
WEEDS CONTROLLED WEED GROWTH RATE CRITICAL COMMENTS STAGE /10 L water						
Limebush (<i>Eremocitrus glauca</i>)	Isolated bushes up to 1.2 m high only	600 mL	Apply a 50 mL dose per 5 m ² of bush surface area.			
Ochna (Ochna serrulate)	Isolated bushes up to 1 300 mL m high only					
Tree Violet (Hymenanthera dentata)	Apply from late flowering to green fruit up to 1.2 m high	600 mL	Apply a 50 mL dose per cubic metre of bush.			

Table F: Boom Application
See GENERAL INSTRUCTIONS – APPLICATION section for APPLICATION METHOD details.

	ESTABLISHED GRASS PASTURES					
WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /ha	CRITICAL COMMENTS			
Blue billygoat weed (Ageratum houstonianum) Common sensitive plant (Mimosa pudica) Giant sensitive plant	Apply before flowering	900 mL	Add Uptake® Spraying Oil at 1 L/ha.			
(Mimosa invisa) Spinyhead sida (Sida acuta)						
Paddy's lucerne (Sida rhombifolia)	Apply to actively growing plants from late spring to late summer.	2.4 L or 1.2 L + 1.6 L 2,4-D Amine (625 g/L)				
St. John's wort (Hypericum perforatum)	Apply from bud to full bloom (usually late Nov to early Jan)	1.8 L	Some regrowth will occur. Treat regrowth the following season for best results. Use at least 200 L water/ha.			
Silverleaf nightshade (Solanum elaeagnifolium)	From onset of flowering to early berry-set. (usually spring to mid-summer)	450 – 600 mL or 225 mL + 1.2-1.6 L 2,4-D Amine (625 g/L)	Add Uptake® Spraying Oil at 1 L/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 F: Boom Application (continued)
See GENERAL INSTRUCTIONS – APPLICATION section for APPLICATION METHOD details.

FORESTRY (SOFTWOOD PLANTATIONS), ROADSIDES, INDUSTRIAL AREAS AND RIGHTS-OF-WAY							
WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /ha	CRITICAL COMMENTS				
Woody and herbaceous weeds, as above	Pre-plant spray operations in forestry or general broadleaf weed growth	600 mL – 1.8 L	Helicopter (Forestry (softwood plantations only)) or ground base application only. Can be mixed with rates of glyphosate up to 2.9 kg a.i./ha.				
	Post-plant spray operations		Ground based directional spraying to the inter-row zone only in forestry.				

2. BROADACRE CROPPING SITUATIONS

Table A: Sorghum

See GENERAL INSTRUCTIONS - APPLICATION section for APPLICATION METHOD details.

CROP GROWTH	WEEDS	WEED GROWTH	RATE	CRITICAL COMMENTS
STAGE	CONTROLLED	STAGE	/ha	
Apply when	Annual ground cherry	2 to 8 leaf	300 mL	Sorghum: From 8 leaf to boot
secondary roots	(Physalis angulata)	Up to 15 cm tall		stage, use dropper nozzles to
are present, from 4	Wild gooseberry	15 to 30 cm tall	450 mL	prevent herbicide coming in
fully expanded	(Physalis minima)	_		contact with the crop's leaves and
leaves (15 cm tall)	Apple-of-Peru	Seedling plants up to		the growing point (meristem).
up to boot (also	(Nicandra physalodes)	15 cm tall		
see CRITICAL	Bathurst burr	2 to 8 leaf	300 mL	
COMMENTS)	(Xanthum spinosum)	Up to 20 cm tall		
,	Noogoora burr	20 to 50 cm tall	450 mL	
	(Xanthium pungens)			
	Red pigweed	Up to 10 cm diameter	300 mL	
	(Portulaca oleracea)	10 to 30 cm diameter	450 mL	
	Sesbania pea	2 to 6 leaf	900 mL	This treatment may be slightly
	(Sesbania cannabina)	Up to 10 cm tall		damaging to the crop. To
	Silverleaf nightshade	Full flower to early	450 mL +	minimise crop damage apply
	(Solanum elaeagnifolium)	berry	Uptake at 1 L/ha	using dropper nozzles at all crop
	Thornapples	2 to 8 leaf	450 mL	stages.
	(Datura spp.)	Up to 15 cm tall		

Volunteer sunflower	2 to 5 leaf	600 mL	
(Helianthus annuus)	Up to 20 cm tall	OOO IIIL	
Amaranthus spp.	Seedling plants up to	300 mL +	Use the low rate (300 mL +
including;	15 cm tall or rosettes	1.25 L	1.25 L) when weeds are small
Boggabri weed	up to 15 cm diameter	atrazine	(5-7 cm tall/diameter).
(A. mitchellii),	ap to 10 oill didilloter	flowable	(5 / Sill tall/dialifotol).
Dwarf amaranth		(600 g/L)	Use the high rate (450 mL +
(A. macrocarpus),		(000 g/L) or	1.67 L) when weeds are larger (7-
Green amaranth		450 mL +	15 cm tall/diameter).
(A. viridis),		1.67 L	can diameter).
Redshank		atrazine	Starane® Advanced is generally
(A. cruentus)		flowable	more compatible with liquid
		(600 g/L)	atrazine products.
Anoda weed		(g, -)	(See GENERAL INSTRUCTIONS;
(Anoda cristata)			COMPATIBILITY section).
B			,-
Bladder ketmia			Add a surfactant (see GENERAL
(Hibiscus trionum)			INSTRUCTIONS; OILS and
Diaglamianus			SURFACTANTS section).
Black pigweed			
(Trianthema portulacastrum)			DO NOT add an oil to mixtures of
Butterfly pea			Starane® Advanced and atrazine.
(Clitoria laurifolia)			Clarano /lavanoca ana anazine.
(
Caltrop (Yellow vine)			
(Tribulus terrestris)			
Spineless caltrop			
(Tribulus micrococcus)			
Cowvine (peach vine)			
(Ipomoea lonchophylla)			
(ipoinoca iononopriyila)			
Hairy wandering Jew			
(Commelina benghalensis)			
Mintweed			
(Salvia reflexa)			
Eupharbia davidii	Cotyledons to 4	600 ml + 4.67 l	
Euphorbia davidii	nodes up to 15 cm	600 mL + 1.67 L atrazine	
	Houes up to 15 CIII	(600 g/L)	
Starburr	Up to 12 leaf and	(600 g/L) 900 mL	
(Acanthospermum	before flowering	900 mL or	
hispidum)	before nowering	or 450 mL + 1.67 L	
		atrazine	
		atrazine (600 g/L)	
Voluntoor populto	Up to 15 cm diameter	(600 g/L) 600 mL + 3.75 L	
Volunteer peanuts (Arachis hypogaea)	op to 15 cm diameter	600 mL + 3.75 L atrazine	
(, ildollis liypoyaca)			
		(600 g/L)	

Table B: Maize & Sweet Corn
See GENERAL INSTRUCTIONS – APPLICATION section for APPLICATION METHOD details.

	WEEDS	1		
CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /ha	CRITICAL COMMENTS
Apply when	Annual ground cherry (Physalis angulata)	2 to 8 leaf	300 mL	Maize: From 6 leaf to just before
secondary roots are present, from 3	Wild gooseberry	Up to 15 cm tall 15 to 30 cm tall	450 mL	tasselling, use dropper nozzles to prevent the herbicide coming in
fully expanded	(Physalis minima)		TOU IIIL	contact with the crop's leaves and
leaves (10 cm tall)	Apple-of-Peru	Seedling plants up to		the growing point (meristem).
up to just before	(Nicandra physalodes)	15 cm tall	0.5.5	, , , ,
tasselling.	Bathurst burr	2 to 8 leaf	300 mL	Sweet corn: From 4 leaf to just
(See CRITICAL	(Xanthum spinosum) Noogoora burr	Up to 20 cm tall 20 to 50 cm tall	450 mL	before tasselling, use dropper
COMMENTS)	(Xanthium pungens)	20 to 50 cm tall	450 ML	nozzles to prevent the herbicide coming in contact with the crop's
	Red pigweed	Up to 10 cm diameter	300 mL	leaves and the growing point
	(Portulaca oleracea)	10 to 30 cm diameter	450 mL	(meristem).
	Sesbania pea	2 to 6 leaf	900 mL	,
	(Sesbania cannabina)	Up to 10 cm tall		
	Thornapples	2 to 8 leaf	450 mL	
	(Datura spp.) Volunteer sunflower	Up to 15 cm tall 2 to 5 leaf	600 mL	
	(Helianthus annuus)	Up to 20 cm tall	OOO IIIL	
	Amaranthus spp.	Seedling plants up to	300 mL +	Use the low rate (300 mL +
	including:	15 cm tall or rosettes	1.25 L	1.25 L) when weeds are small
	Boggabri weed	up to 15 cm diameter	atrazine flowable	(5-7 cm tall/diameter).
	(A. mitchellii),		(600 g/L)	
	Dwarf amaranth (A. macrocarpus),		or 450 ml	Use the high rate (450 mL + 1.67 L) when weeds are larger (7-
	Green amaranth		450 mL + 1.67 L	1.67 L) when weeds are larger (7-15 cm tall/diameter).
	(A. viridis),		atrazine flowable	13 cm tail/diameter).
	Redshank		(600 g/L)	Starane® Advanced is generally
	(A. cruentus)		(5. /	more compatible with liquid
	Anoda weed (Anoda cristata)			atrazine products.
				(See GENERAL INSTRUCTIONS:
	Bladder ketmia			COMPATIBILITY section).
	(Hibiscus trionum)			Add a surfactant (see GENERAL
	Black pigweed			INSTRUCTIONS; OILS and
	(Trianthema			SURFACTANTS section).
	portulacastrum)			·
	Caltrop (Yellow vine) (Tribulus terrestris)			DO NOT add an oil to mixtures of
	(Tribulus terrestris)			Starane® Advanced and atrazine.
	Spineless caltrop			
	(Tribulus micrococcus)			
	Cowvine (Peach vine)			
	(Ipomoea lonchophylla)			
	Hairy wandering Jew			
	(Commelina benghalensis)			
	Mintweed			
	(Salvia reflexa)	Cotulodana ta 4	600 ml · 4 07 l	
	Euphorbia davidii	Cotyledons to 4 nodes up to 15 cm	600 mL + 1.67 L atrazine	
	Starburr	Up to 12 leaf and	(600 g/L) 900 mL	1
	(Acanthospermum	before flowering	or	
	hispidum)		450 mL + 1.67 L	
			atrazine	
			(600 g/L)	
	Volunteer peanuts	Up to 15 cm diameter	600 mL + 2.7 L	
	(Arachis hypogaea)		atrazine	
Sweet corn	Blackberry nightshade	3 to 5 leaf	(600 g/L) 600 mL	1
(Tas only)	(Solanum nigrum)	o to o leal	JOO IIIL	
3 to 5 leaf	Volunteer potatoes			
	(Solanum tuberosum)			

Table C: Millets
See GENERAL INSTRUCTIONS – APPLICATION section for APPLICATION METHOD details.

CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /ha	CRITICAL COMMENTS
Spray when secondary roots	Annual ground cherry (Physalis angulata)	2 to 8 leaf Up to 15 cm tall	300 mL	Millets: DO NOT use mixes of Starane® Advanced + atrazine on
have developed, usually early to	Wild gooseberry (Physalis minima)	15 to 30 cm tall	450 mL	Japanese millet (Echinochloa esculenta).
mid-tillering, and	Apple-of-Peru (Nicandra physalodes)	Seedling plants up to 15 cm tall		,
not later than before heads start	Bathurst burr (Xanthum spinosum)	2 to 8 leaf Up to 20 cm tall	300 mL	Starane® Advanced + atrazine can be safely applied to: French millet
to form at the base of tillers.	Noogoora burr (Xanthium pungens)	20 to 50 cm tall	450 mL	(Panicum miliaceum)
(See CRITICAL COMMENTS)	Red pigweed (Portulaca oleracea)	Up to 10 cm diameter 10 to 30 cm diameter	300 mL 450 mL	Foxtail millet (Setaria italica var. panorama)
	Sesbania pea (Sesbania cannabina)	2 to 6 leaf	900 mL	
	Thornapples	Up to 10 cm tall 2 to 8 leaf	450 mL	
	(<i>Datura</i> spp.) Volunteer sunflower	Up to 15 cm tall 2 to 5 leaf	600 mL	
	(Helianthus annuus) Amaranthus spp.	Up to 20 cm tall Seedling plants up to	300 mL +	Use the low rate (300 mL +
	including: Boggabri weed (A. mitchellii),	15 cm tall or rosettes up to 15 cm diameter	1.25 L atrazine flowable (600 g/L)	1.25 L) when weeds are small (5-7 cm tall/diameter).
	Dwarf amaranth (A. macrocarpus), Green amaranth (A. viridis),		or 450 mL + 1.67 L atrazine flowable	Use the high rate (450 mL + 1.67 L) when weeds are larger (7-15 cm tall/diameter).
	Redshank (A. cruentus)		(600 g/L)	Starane® Advanced is generally more compatible with liquid atrazine products.
	Anoda weed (Anoda cristata)			(See GENERAL INSTRUCTIONS ; COMPATIBILITY section)
	Bladder ketmia (Hibiscus trionum)			Add a surfactant (see GENERAL INSTRUCTIONS; OILS and SURFACTANTS section).
	Black pigweed (Trianthema portulacastrum)			DO NOT add an oil to mixtures of
	Caltrop (Yellow vine) (Tribulus terrestris)			Starane® Advanced and atrazine
	Spineless caltrop (Tribulus micrococcus)			
	Cowvine (Peach vine) (Ipomoea lonchophylla)			
	Hairy wandering Jew (Commelina benghalensis)			
	Mintweed (Salvia reflexa)			
	Starburr (Acanthospermum hispidum)	Up to 12 leaf and before flowering	900 mL or 450 mL + 1.67 L atrazine flowable (600 g/L)	

Table D: Winter Cereals Boom Application See GENERAL INSTRUCTIONS – APPLICATION section for APPLICATION METHOD details.

	WHEAT, BARLEY, OATS and TRITICALE								
CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /ha	CRITICAL COMMENTS					
Apply from 3 leaf to	Bedstraw (Galium tricornutum)	3 to 6 whorl	300 mL +	Add Uptake® Spraying Oil at 500 mL/					
flag (Zadoks 13 to 39)	Black bindweed (Climbing buckwheat)	2 to 4 leaf	Uptake 300 mL + Uptake ①	100 L water. Useful suppression only					
	(Fallopia convolvulus)	2 to 6 leaf	450 mL or 300 mL + 5 g metsulfuron (600 g/kg) 1	Mixtures: Mixing partners with Starane® Advanced may reduce crop selectivity. Apply at crop growth stages according to the mixing partner's recommendation.					
	Cleavers (Galium aparine)	1 to 3 whorl	600 mL						
	Common sowthistle (Sonchus oleraceus)	2 to 5 leaf	600 mL	DO NOT use Starane® Advanced +					
	Deadnettle (Lamium amplexicaule)	2 to 6 leaf	900 mL or	metsulfuron mixtures in oats or durum wheat.					
	Spiny emex (Emex australis)	2 to 4 leaf	300 mL + 5 g metsulfuron (600 g/kg) ①						
	Prickly lettuce (Lactuca serriola)	2 to 5 leaf	300 mL + Uptake or 600 mL						
	Volunteer lupins (Lupin angustifolius)	2 to 8 leaf	900 mL						
	Volunteer potato (Solanum tuberosum)	10 to 15 cm tall		Plants 15 to 30 cm tall will only be suppressed.					
	Wireweed (Hogweed) (<i>Polygonum aviculare</i>)	2 to 3 leaf	300 mL + 5 g metsulfuron (600 g/kg) ①						
	Bittercress (Coronopus didymus) Mustards (Sisymbrium spp.) Shepherd's purse (Capsella bursa-pastoris) Turnip weed (Rapistrum rugosum) Wild radish (Raphanus raphanistrum) Wild turnip	Up to 8 leaf and up to 15 cm diameter	300 to 900 mL + metsulfuron (600 g/kg) ① or LVE 600 MCPA or Canvas 750	The Starane® Advanced rate depends on what other weeds are present as listed above. See Mixtures comment above metsulfuron @ 5 g/ha (This mix does not control wild radish). LVE 600 MCPA @ 580mL/ha, Canvas® 750 (MCPA amine) @ 670mL/ha					
	(Brassica tournefortii)			LC and CUDEACTANTS coefficial)					

Note: ● Add either Uptake or a surfactant (see GENERAL INSTRUCTIONS; OILS and SURFACTANTS section).

Table E: Established Lucerne (NSW only) Boom Application
See GENERAL INSTRUCTIONS – APPLICATION section for APPLICATION METHOD details.

CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /ha	CRITICAL COMMENTS
Established crops at least eighteen	Annual ground cherry (<i>Physalis angulata</i>)	2 to 8 leaf up to 15 cm high	300 mL	To minimise crop injury and to maximise weed control, cut, slash or heavily graze the lucerne before application. Wherever
months old	Bathurst burr (Xanthum spinosum)			possible, irrigate before application to stimulate weed growth.
	Noogoora burr (Xanthium pungens) Wild gooseberry (Physalis minima)			DO NOT treat crops growing on sandy or stony soils. DO NOT treat crops after the summer growing season (after end of March).
	Red pigweed (Portulaca oleracea)	Up to 10 cm diameter		To broaden the spectrum of weeds controlled, Starane® Advanced can be mixed with 2,4-DB amine.

Table F: Sugar cane See GENERAL INSTRUCTIONS – APPLICATION section for APPLICATION METHOD details.

CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /ha	CRITICAL COMMENTS
From early tillering to maturity	Balsum pear (Momordica charantia) Blackberry nightshade (Solanum nigrum) Blue billygoat weed (Ageratum houstonianum) Centro (Centrosema pubescens) Cowpea (Vigna unguiculate) Giant sensitive plant (seedlings only) (Mimosa invisa) Lablab bean (Lablab purpureus) Noogoora burr (Xanthum pungens) Phasey bean (Macroptilium lathyroides) Pinkburr (Urena lobata) Prickly African cucumber (Cucumis metuliferus) Spinyhead sida (Sida acuta) Stinking passion flower (seedlings only) (Passiflora foetida) Bellvine (Ipomoea plebeia) Morning glory (Ipomoea purpurea) Pink convolvulus (Ipomoea hederifolia) Star-of-Bethlehem (Ipomoea quamoclit) Milkweed (Euphorbia heterophylla)	Apply from 2 to 3 leaf until flowering Seedlings and young plants up to flowering	As above + 800 mL 2,4-D Amine (625 g/L)	For optimal weed control, delay application until just before the "close-in" stage. Aerial application: Apply in not less than 60 L/ha water and add Uptake® Spraying Oil at 1 L/100 L spray mixture. Ground application: Apply in 100 - 400 L/ha water and add Uptake® Spraying Oil at 500 mL/100 L of spray mixture. 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 seedlings that germinate.
From early tillering to maturity	Stinking passion flower (Passiflora foetida)	Established or ratoon plants with at least 1 m of regrowth	(600 g/L) 270 mL	Spot spray application: Thoroughly wet plants to the point of run-off.

Table G: Poppies (Tas only)
See GENERAL INSTRUCTIONS – APPLICATION section for application method details

CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /ha	CRITICAL COMMENTS
4 to 6 leaf	Cleavers (Galium aparine) Fumitory (Fumaria spp.)	2 to 6 leaf	600 mL	
	Shepherd's purse (Capsella bursa-pastoris) Wireweed (Hogweed) (Polygonum aviculare)		600 mL + 5 L Asulox®	
8-10 leaf	Common sowthistle (Sonchus oleraceus) Prickly lettuce (Lactuca serriola)	2 to 5 leaf	600 mL	DO NOT apply Starane® Advanced to poppies later than the 8 to 10 leaf growth stage as a reduction of alkaloid content could occur.
	Black nightshade (Solanum nigrum) Fumitory	cotyledon to 4 leaf 6 to 10 leaf	900 mL	osala ossali
	(Fumaria spp.) Volunteer potato (Solanum tuberosum)	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 15 cm tall.

3. FALLOW SITUATIONS

Table A: Boom Application

See GENERAL INSTRUCTIONS – APPLICATION section for application method details.

	WINTER FALLOW						
WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /ha	CRITICAL COMMENTS				
Bedstraw (Galium tricornutum) Cleavers (Galium aparine)	Up to 5 whorl	600 mL ①	When mixing with glyphosate (450 g/L) to control both grass and broadleaf weeds, refer to the glyphosate product label for use rates and adjuvants recommended for the grasses.				
Black bindweed (Climbing buckwheat) (Fallopia convolvulus)	2 to 8 leaf up to 10 cm diameter	450 mL ①	(See GENERAL INSTRUCTIONS; COMPATIBILITY section).				
Common sowthistle (Sonchus oleraceus) Prickly lettuce (Lactuca serriola)	2 to 5 leaf up to 10 cm diameter	600 mL 0					
Doublegee (Spiny emex) (Emex australis)	2 to 8 leaf	900 mL ①					
Wireweed (Hog weed) (<i>Polygonum aviculare</i>)	2 to 3 leaf up to 10 cm tall						
Doublegee (Spiny emex) (<i>Emex australis</i>)	2 to 8 leaf	300 mL 2+ 5 g metsulfuron (600 g/kg)					
Wireweed (Hogweed) (<i>Polygonum aviculare</i>)	2 to 3 leaf up to 10 cm tall						
Common sowthistle (Sonchus oleraceus) Prickly lettuce (Lactuca serriola)	2 to 5 leaf up to 10 cm diameter	300 mL + 600 mL glyphosate (450 g/L)					
Wireweed (Hogweed) (<i>Polygonum aviculare</i>	2 to 3 leaf up to 10 cm tall						
Small-flowered mallow (<i>Malvia parviflora</i>)	Up to 8 leaf or up to 20cm diameter	300 mL + 1.2 L glyphosate (450 g/L)					

Note: • Add Uptake Spraying Oil (see GENERAL INSTRUCTIONS; OILS and SURFACTANTS section).

2 Add Uptake or a surfactant (see GENERAL INSTRUCTIONS; OILS and SURFACTANTS section).

Table B: Boom Application
See GENERAL INSTRUCTIONS – APPLICATION section for application method details

		SUMMER FA	
WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /ha	CRITICAL COMMENTS
Annual ground cherry (Physalis angulata) Bathurst burr (Xanthium spinosum) Noogoora burr	2 to 8 leaf, up to 15 cm tall 2 to 8 leaf, up to 20 cm tall	450 mL ①	● Add Uptake® Spraying Oil (see GENERAL INSTRUCTIONS; OILS and SURFACTANTS section).
(Xanthium pungens) Perennial ground cherry (Physalis virginiana) ②	Bud to early flowering up to 20 cm tall	900 mL ① or 1.8 L ①	Delay treatment until the maximum number of shoots have emerged, but before the onset of fruiting (late summer)
Polymeria (Polymeria pusilla)	2 to 10 leaf up to 20 cm diameter	600 mL 0	DO NOT treat plants showing symptoms from previous treatment.
Red pigweed (Portulaca oleracea)	Up to 10 cm diameter	300 mL 0	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
Rhynchosia (Rhynchosia minima)	Seedlings to early flowering	600 mL ①	treatments.
Silverleaf nightshade (Solanum elaeagnifolium)	Full flower to early berry-set (usually Dec - Feb)	450 to 600 mL	Add Uptake® Spraying Oil at the rate of 1 L/100 L 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.
Small-flowered mallow (Malva parviflora)	Up to 8 leaf or up to 20 cm diameter	300 mL + 1.2 L glyphosate (450 g/L)	When mixing with glyphosate (450 g/L) to control both grass and broadleaf weeds, refer to the glyphosate product label for use rates and adjuvants recommended for the grasses. (See GENERAL INSTRUCTIONS; COMPATIBILITY section)
	Up to 8 leaf up to 20 cm diameter	600 mL ❶	●Add Uptake® Spraying Oil (see GENERAL INSTRUCTIONS; OILS and SURFACTANTS section).
Thornapples (Datura spp.)	2 to 8 leaf up to 15 cm tall	450 mL ①	
Sesbania pea (Sesbania cannabina)	2 to 6 leaf up to 10 cm tall	900 mL ❶	
Volunteer sunflowers (Helianthus annuus)	2 to 5 leaf up to 20 cm	600 mL ①	
Wild gooseberry (<i>Physalis minima</i>)	2 to 8 leaf, up to 15 cm tall	450 mL ①	
Red pigweed (Portulaca oleracea)	Up to 10 cm diameter	225 mL + 1.2 L	When mixing with glyphosate (450 g/L) to control both grass and broadleaf weeds, refer to the
Rhynchosia (Rhynchosia minima)	Seedlings to early flowering	glyphosate (450 g/L)	glyphosate product label for use rates and adjuvants recommended for the grasses.
Bellvine (Ipomoea plebeia)	Pre-flowering	300 mL + 1.2 L	(See GENERAL INSTRUCTIONS; COMPATIBILITY section)
Bladder ketmia (Hibiscus trionum)	4 to 8 leaf, up to 10 cm tall	glyphosate (450 g/L)	
Black bindweed (Climbing buckwheat) (Fallopia convolvulus)	2 to 10 leaf up to 20 cm diameter		
Cowvine (Peach vine) (Ipomoea lonchophylla)	2 to 10 leaf up to 10 cm diameter		
Caltrop (Yellow vine) (Tribulus terrestris)	Up to 15 cm diameter		
Polymeria (Polymeria pusilla)	2 to 10 leaf up to 20 cm diameter		
Red pigweed (Portulaca oleracea)	10 to 30 cm diameter		
Spineless caltrop (Tribulus micrococcus)	Up to 15 cm diameter		
Thornapples (Datura spp.)	2 to 8 leaf up to 15 cm tall		

Table B: Boom Application (continued)
See GENERAL INSTRUCTIONS – APPLICATION section for application method details

SUMMER FALLOW							
WEED GROWTH	RATE	CRITICAL COMMENTS					
STAGE	/ha						
10-12 leaf up to 30 cm diameter	450 mL + 1.2 L glyphosate						
Up to 60 cm diameter	(450 g/L)						
Full flower to early berry-set (usually Dec - Feb)	225 mL + 1.2-1.6 L 2,4-D amine (625 g/L)	Add Uptake® Spraying Oil at the rate of 1 L/ 100 L 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.					
Up to 15 cm diameter	600 mL + 3.75 L atrazine (600 g/L)	Add a surfactant (see GENERAL INSTRUCTIONS; OILS and SURFACTANTS section). Important: (See GENERAL INSTRUCTIONS; COMPATIBILITY section).					
2-6 leaf, up to 10 cm tall 5-7 node, up to 25	450 mL 600 mL						
	WEED GROWTH STAGE 10-12 leaf up to 30 cm diameter Up to 60 cm diameter Full flower to early berry-set (usually Dec - Feb) Up to 15 cm diameter 2-6 leaf, up to 10 cm tall	WEED GROWTH STAGE RATE /ha 10-12 leaf up to 30 cm diameter 450 mL + 1.2 L glyphosate (450 g/L) Up to 60 cm diameter (450 g/L) Full flower to early berry-set (usually Dec - Feb) 225 mL + 1.2-1.6 L 2,4-D amine (625 g/L) Up to 15 cm diameter 600 mL + 3.75 L atrazine (600 g/L) 2-6 leaf, up to 10 cm tall 450 mL 5-7 node, up to 25 600 mL					

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

WITHHOLDING PERIODS:

Crops and Pastures: DO NOT GRAZE FAILED CROPS AND TREATED PASTURES

OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER

APPLICATION.

Poppies: DO NOT SPRAY POPPIES LATER THAN 10 WEEKS BEFORE

HARVEST.

Winter & Summer cereals, Sugar cane: NO WITHHOLDING PERIOD REQUIRED

WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS

MINIMUM RECROPPING PERIODS

Plant-back periods for crops following the application of Starane [®] Advanced for rates up to 900 mL/ha.								
RATE mL/ha 225 450 900								
CROP	Days	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					

Restraint: Do not plant susceptible crops, including cotton, pigeon peas and other pulse crops, into irrigated fields with soils containing less than 25% clay content, within 12 months of treatment with Starane[®] Advanced.

Note: Before using Starane® Advanced 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, *i.e.* the product with the longest plant-back period.

MIXING:

- Starane[®] Advanced may be mixed with water and diesel (or Biosafe).
- 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 Starane[®] Advanced and complete filling. Agitate continuously to ensure thorough mixing before and during application.
- Mixing in Diesel (or Biosafe): Half fill the spray tank with diesel or Biosafe and add the required quantity of Starane[®] Advanced. Add the remainder of the diesel or Biosafe and agitate or shake to mix contents
- Tank mixtures: Wettable powder or dry flowable formulations (e.g. water dispersible granules) should be added to the spray tank first, followed by suspension concentrates (flowables), water soluble salts and then emulsifiable concentrate formulations (Starane® Advanced). Add spraying OILS and SURFACTANTS (wetters) last. (See COMPATIBILITY section for glyphosate (450 g/L) for additional instructions when mixing with glyphosate.)

OILS AND SURFACTANTS

Oils:

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

Surfactants (wetters):

Use a 100% concentrate non-ionic surfactant such as BS1000® at 100 mL/100 L of spray mix where required.

COMPATIBILITY

Starane® Advanced is compatible with the **herbicides** listed.

Follow any regional restrictions, and all directions and restrictions on the label, of any chemical mixed with Starane[®] Advanced.

atrazine (see below), Broadstrike[®], Crusader[®] GoDRI, Rexade, LVE 600 MCPA, Canvas[®] 750 (MCPA amine), diclofop methyl, Eclipse[®], Esteron[®] LV, Garlon[®] 600, Garlon[®] FallowMaster[®], glyphosate, Hotshot[®], Lontrel[®] Advanced, MCPA, metsulfuron-methyl, Paradigm[®], Statesman[®] 720, Stinger[®], Topik[®] 240 EC (see below), Tordon[®] 75-D, Touchdown[®] and 2.4-DB.

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ATRAZINE

- AVOID USING HARD WATER WHEREVER POSSIBLE.
 - Where hard water cannot be avoided, the addition of a water conditioning agent to the spray tank, at 100 g/100 L water, before adding any herbicide may improve compatibility.
- AGITATION IS VERY IMPORTANT WHEN MIXING STARANE® ADVANCED AND ATRAZINE. Starane® Advanced 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 two (2) hours. If settling out occurs re-suspension is difficult, even with vigorous agitation. Agitation using only the pump's by-pass is usually inadequate, particularly with larger tanks (more than 2000 L). Additional mechanical agitation will be necessary in large tanks, computer sprayers and mixing tanks.
- When additional surfactant is required, add a 100% concentrate non-ionic surfactant at 100 mL/100 L of spray mix. DO NOT use a spraying oil when tank mixing Starane[®] Advanced and atrazine.

Guidelines For Tank Mixing Starane® Advanced And Common Atrazine Formulations:

Tank Mix	Rate Wa (/ha)		Nater Hardne	ater Hardness		Water Volume L/ha)	Comments
		Soft	Medium	Hard	Ground	Aerial	
Starane [®]	450 mL				50	35	
Starane [®] + Gesaprim [®] 600 FW	450 mL + 1.67 L				50 - 100	35	Precipitate can be easily resuspended
Starane [®] + Atradex [®] 900 WG	450 mL + 1.1 kg				100	Do not use	Precipitate may be difficult to resuspend and may block nozzles
Starane [®] + Nu-Trazine [®] DF	450 mL + 1.1 kg				100	Do not use	Sediment may be difficult to resuspend and may block nozzles
Starane [®] + Nu-Trazine [®] 500 FW	450 mL + 2 L				100	Do not use	Precipitate may be difficult to resuspend and may block nozzles

TOPIK 240 EC

- Always use Uptake[®] Spraying Oil with Starane[®] Advanced + Topik[®] 240 EC tank mixes at 500 mL/100L of spray mix with a minimum of 250 mL/ha.
- DO NOT mix Starane[®] Advanced 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 Starane[®] Advanced at more than 450 mL/ha in tank mixes with Topik[®] 240 EC.

Glyphosate (450 g/L)

 When mixing Starane[®] Advanced with glyphosate (450 g/L) to control both grass and broadleaf weeds, refer to the glyphosate product label for use rate recommended for grasses. DO NOT use glyphosate (450 g/L) at less than 1.2 L/ha in tank mixes with Starane[®] Advanced, when barnyard grass, buttongrass, crowsfoot grass, native millet and liverseed grass are the target species.

Mixing Instructions for glyphosate + Starane[®] Advanced + other tank-mix partners:

Step 1: Fill the spray tank to 1/2 full with clean water, start and maintain agitation.

Step 2: Where ammonium sulphate (crystalline or liquid form) is recommended, wash crystalline form at 0.8% w/v (800g/100 L spray solution) through a top mesh screen into the tank OR add Liase at 2 % v/v (2 L/100 L spray solution) and mix thoroughly for several minutes.

Step 3: Add glyphosate (450 g/L) and allow mixing thoroughly for several minutes.

Step 4: For other tank-mix partners: Add dry flowable formulations (e.g. metsulfuron) first, followed by suspension concentrates (flowables e.g. atrazine), water soluble salts

(e.g. Statesman® 720).

Step 5: Then add emulsifiable concentrate formulations, such as Starane[®] Advanced, and allow mixing thoroughly for several minutes.

Step 6: Add remaining water to desired final fill level.

Step 7: Add a 100% non-ionic surfactant at 0.2% v/v near the end of the filling process to minimize excessive foaming.

Removing hose from tank immediately after the filling will prevent back siphoning into water source. Always maintain adequate agitation during application and use the tank load promptly.

APPLICATION METHODS and WATER RATES

BROADCAST APPLICATION IN CROPPING, PASTURE AND FALLOW SITUATIONS.

A. Ground application (Boom)

- Apply Starane® Advanced with an accurately calibrated boom sprayer, in at least 50 L/ha water (100-400 L/ha for sugar cane).
- Flat fan nozzles applying a medium quality spray (ASAE-S572) are recommended.
- Set the boom at a height to ensure a double overlap of the nozzle patterns.

B. Ground directed 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 35 L/ha water (60 L/ha in sugar cane)
- Use equipment calibrated to produce a coarse quality spray (ASAE-S572).
- 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 spray when wind speed is less than 3 km/hr or more than 20 km/hr.

WOODY WEED SITUATIONS

Weeds must be actively growing to attain optimal effect. Delay the treatment of re-growth 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 4000 L/ha (15 to 40 L/100m²) is required per infested hectare.
- Ensure thorough coverage to the point of runoff.

Knapsack & 12 volt Sprayer Packs

 Only recommended for the control of herbaceous weeds such as cobblers peg, docks and wandering jew. DO NOT use knapsacks or 12 volt sprayer packs to treat woody weeds.

B. Aerial Application

- Apply in 200 L of water/ha using an aircraft to apply 100 L per pass on a double overlap pattern using nozzle configurations to produce a coarse quality spray (ASAE-S572).
- The potential for damage from drift can be greatly reduced by avoiding unsuitable spraying conditions and using spray pressure and nozzles to minimise the production of small droplets.
- DO NOT spray when wind speed is less than 3 km/hr or more than 20 km/hr and/or air temperature reaches 35 °C.

C. Basal Bark and Cut Stump Application

Basal Bark

- DO NOT apply to wet stems as this can repel the diesel or Biosafe mixture.
- Spray or paint the recommended mixture around the base of each stem from ground level to a height of at least 30 cm 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 (≤ 200 kPa) 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 15 cm above the ground.

D. Low Volume, High Concentrate Application

Drench Gun or Gas-Powered Gun

- Apply the recommended mixture uniformly across the foliage by applying 50 mL shots to cover
 - 4 to 5 m² 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.

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 Starane® Advanced Herbicide, 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, NATIVE AND OTHER NON-TARGET PLANTS): Wash the tank and rinse the system as above. Then quarter fill the tank and add an alkali detergent at 500 mL/100 L of water or the powder equivalent at 500 g/100 L and circulate throughout the system for at least 15 minutes. If using a concentrated laundry detergent use 250 g (or mL)/100 L water. Do not use chlorine-based cleaners.

• 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 or Biosafe - based sprays:

- On completion of spraying, use a degreaser to remove traces of diesel from the sprayer. Rinse tank and spray through nozzles with water to remove degreaser.
- Then, quarter fill the tank with clean water and add an alkali detergent at 50 mL/10 L of water or the powder equivalent at
 - 50 g/10 L 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

Starane® Advanced Herbicide is a member of the pyridine group of herbicides. The product has a disrupters of plant cell growth mode of action. For weed resistance management the product is a Group I Herbicide. Some naturally occurring weed biotypes resistant to the product 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 this product or Group I herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Dow AgroSciences Australia Limited* accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

Strategies to minimise the risk of herbicide resistance are available. Contact your farm chemical supplier, consultant, local Department of Agriculture, or local Corteva Agriscience 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 tree, potatoes, navy beans, safflower, shade trees, soybeans, sunflower, tobacco, tomatoes, vegetables, and vines.
- Starane[®] Advanced can be damaging to susceptible crops during both growing and dormant periods.
- Grasses are normally unaffected by Starane® Advanced 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* spp.).
- DO NOT allow spray to drift onto susceptible crops, shade trees and Pinus spp.
- **DO NOT** use under weather conditions or from spraying equipment which could be expected to cause spray to drift onto 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, therefore livestock should be kept out of the area until the plants have died down.
- **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

Keep Out of Reach of Children

Store in closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

Do not store near food, feedstuffs, fertilisers or seed.

^{*} Dow AgroSciences Australia Limited is a member of Corteva Agriscience group of companies

5 & 20 Litre

This container can be recycled if it is clean, dry, free of visible residues and has the *drum*MUSTER logo visible. Triple or pressure rinse container for disposal. Dispose of rinsate by adding to the spray tank. Do not dispose of undiluted chemicals on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any *drum*MUSTER collection or similar container management site. The cap should not be replaced but may be taken separately. 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.

100 L & 110L

Do not remove or tamper with the dry valves or security seal. Do not contaminate the drum with water or any other foreign matter. After each use of the product ensure that the dry valve coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained. Add the rinsings to the spray tank. When the drum is empty remove the dry valve coupler and return to the point of purchase. The drum remains the property of Corteva Agriscience and must be returned.

1000 Litre

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SPILL AND LEAK MANAGEMENT

Do not touch or walk through spilled material. Wear a face-shield or goggles, overalls buttoned to neck and wrist, chemical resistant gloves and footwear. Stop leak when safe to do so. Dam area and prevent entry into waterways, and drains. **Small spills/leaks**: Absorb with material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal. Dam the area of large spills and report them to Corteva Agriscience Emergency Services at 1-800 370 754.

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CUSTOMER SERVICE TOLL FREE 1-800 700 096

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Barcode for stock identification



Hazard and precautionary statements according to classification under GHS (Globally Harmonised System of Classification and Labelling)

May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects. Avoid breathing fumes/vapours/spray. Wear protective gloves / eye protection / face protection. Avoid release to the environment.