

StaraneTMAdvanced Herbicide

ACTIVE CONSTITUENT:333 g/L FLUROXYPYR present as the meptyl ester



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.

Contents: 5 L, 20 L, 100 L, 110 L, 1000 L

Dow AgroSciences Australia Limited ABN 24 003 771 659

20 Rodborough Road Frenchs Forest NSW 2086 www.dowagrosciences.com.au

CUSTOMER SERVICE TOLL FREE 1-800 700 096

*Trademark of Dow AgroSciences

GMID No:

Starane Advanced Herbicide Approved Label 03-04-09 1

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.

This container can be recycled if it is clean, dry, free or visible residues and has the DrumMUSTER logo visible. Triple or pressure rinse containers for disposal. Dispose of rinsate by adding it 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 the cap removed. It will then be acceptable for recycling at any DrumMUSTER collection or similar container management program site. The cap should not be replaced but may be taken separately. If not recycling break, crush or puncture and bury empty packaging in a local authority landfill. If no landfill is available, bury the packaging below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty packaging and product should not be burnt.

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 Dow AgroSciences Emergency Services at 1800-033-882.

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 goggles and contaminated clothing.
- · Wash hands after use.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre.
 Phone: Australia 13 11 26.

MATERIAL SAFETY DATA SHEET

Additional information is listed on the Material Safety Data Sheet for **STARANE ADVANCED HERBICIDE** which is available from Dow AgroSciences on request. Call Customer Service Toll Free on 1-800 700 096 or visit www.dowagrosciences.com.au

NOTICE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of the product contrary to label instructions or under off-label permits not endorsed by Dow AgroSciences, or under abnormal conditions.

EMERGENCY RESPONSE
(All Hours)
RING FROM ANYWHERE IN AUSTRALIA
1-800 033 882

(LOCAL CALL FEE ONLY)

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

Barcode for stock identification

D.O.M/Batch No: APVMA No. 62287/5/0109 APVMA No. 62287/20/ 0109 Made in New Zealand

STORAGE AND DISPOSAL

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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.

Do not 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 close all valves and return to the point of purchase. The drum remains the property of Dow AgroSciences and must be returned.

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D.O.M/Batch No:

APVMA No. 62287/100/0109 APVMA No. 62287/110/0109

Made in New Zealand

1000 L

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.

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

SPILL AND LEAK MANAGEMENT

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Index (Note: This will show page numbering in final printed version)

Section 1 WOODY WEED SITUATIONS

Table A High Volume Application

Table B Aerial Application

Table C Basal Bark Application

Table D Cut Stump / Brushcutter Application

Table E Low Volume, High Concentrate Application

Table F Boom Application

Section 2 BROADACRE CROPPING SITUATIONS

Table A Sorghum

Table B Maize and Sweet corn

Table C Millets

Table D Winter Cereals (Wheat, Barley, Oats and Triticale)

Table E Established Lucerne

Table F Sugar Cane

Table G Poppies

Section 3 FALLOW SITUATIONS

Table A Winter Fallow

Table B Summer Fallow

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.

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 (Jatropha gossypiifolia)	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)	Seedlings and young plants up to flowering	300 mL		
Bokhara clover (Melilotus albus)	Seedlings and young plants up to flowering			
Broad-leaf pepper tree (Schinus terebinthifolius)	Mature leaves, fruiting	300 mL	Winter application only. Contact Alan Fletcher Research Station, 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	Seedlings and young plants 300 mL E	
Honey locust (Gleditsia triacanthos)	Seedlings and young plants up to 2m high		
Lantana (Lantana camara)	Seedlings and regrowth 0.5 to 1.2m high		Apply to actively growing plants from October to April. Some regrowth may
	Plants and regrowth 1.2 to 2 m high	600 mL	occur particularly when treating old woody plants with sparse canopies.
Limebush (Eremocitrus glauca)	Infestations up to 1.5m high only		
Madeira vine (Anredera cordifolia)	Apply at time of active growth	300 mL	
Milkweed (Euphorbia heterophylla)	3 leaf to flowering	600 mL	Repeat applications will be necessary to control subsequent germinations.
Mistflower (Ageratina riparia)	Seedlings and young plants up to flowering.	300 mL	

Table A: High Volume Spraying: Dilute product with water. See GENERAL INSTRUCTIONS – APPLICATION section for APPLICATION METHOD details.

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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	
Mother-of-millions (Kalanchoe spp.)	Seedling and young plants before flowering	360 mL	Add a surfactant (see GENERAL INSTRUCTIONS; OILS and SURFACTANTS section).	
Noogoora burr (Xanthium pungens)	Seedlings and young plants up to 40 cm high	45 mL		
Ochna (Ochna serrulate)	Plants up to 2 m high	600 mL		
Paddy's lucerne (Sida rhombifolia)	Active growth		Plants which have been continually slashed or grazed over many seasons may be difficult to control and regrowth may occur.	
Prickly acacia (Acacia nilotica)	Seedling and young plants up to 2 m high that are actively growing.	450 mL	Add Uptake Spraying Oil (see GENERAL INSTRUCTIONS; OILS and SURFACTANTS section). Consult Tropical Weeds Research Centre, Biosecurity Qld, Charters Towers for specific advice on application.	
Scrub nettle (Perennial) (Urtica incisa)	Flowering plants up to 1 m high	300 mL		
Sida (Sida spp.)	Seedlings and young plants up to flowering.	600 mL		
Silverleaf nightshade (Solanum elaeagnifolium)	From onset of flowering to early berry set (usually spring to mid-summer)	300 mL	To ensure Maximum effect, delay application until the majority of shoots have emerged. Follow-up treatment of regrowth is critical for best control.	
Small flowered mallow (Marshmallow) (Malva parviflora)	Seedlings and young plants up to flowering			
Snakeweed (Dark and light blue) (Stachytarpheta spp.)	Seedling and young plants before flowering	450 mL	Add Uptake Spraying Oil (see GENERAL INSTRUCTIONS; OILS and SURFACTANTS section).	
St. John's wort (Hypericum perforatum)	Flowering to early seed set	300 mL	Late spring to early summer.	
Stinking passion flower (Passiflora foetida)	Established plants and regrowth	270 mL		
Wandering Jew (Tradescantia albiflora)	Young plants up to and including flowering.	900 mL	Some regrowth will usually occur and will require re-treatment.	
Wattles including; Acacia aulacocarpa	Seedling plants or regrowth 0.5 to 1.2m high	300 mL	Apply to actively growing plants when soil moisture is plentiful. Some regrowth	
A. decora A. harpophylla A. leiocalyx A. salicina)	Plants or regrowth 1.2 to 2.0m high only	600 mL	may occur particularly when treating old woody plants with sparse canopies and under dry conditions.	
White lupin (Lupinus albus) Yellow-flowered devil's	Young plants up to and including flowering. Seedlings and young plants	300 mL		
claw (Ibicella lutea)	up to flowering			

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	WEEDS CONTROLLED WEED GROWTH STAGE RATE CRITICAL COMMENTS					
		(/ha)				
Giant sensitive tree (<i>Mimosa pigra</i>)	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 Natural Resources, Environment and The Arts, NT for further information.			

Table C: Basal Bark Application

Dilute product with diesel 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	CRITICAL COMMENTS	
Broad-leaf pepper tree (Schinus terebinthifolius)	Plants up to 5 cm basal diameter	2.1 L		
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 Primary Industries & 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 Primary	
	Plants >20 cm basal diameter	3 L	Industries & Fisheries, Qld, for further information.	
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 (Acacia nilotica)	Up to 10 cm basal diameter			
Sisal hemp (Agave spp.)	All growth stages	1.8 L	Treat as an overall spray. Contact the Department of Primary Industries & Fisheries, Qld, for advice to control large infestations.	
		6 mL undiluted product per plant	Lever out centre of plant with crowbar and immediately treat the exposed cut area.	

Table D: Cut Stump/Brushcutter Application

Dilute product with diesel 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	CRITICAL COMMENTS		
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.		
Mimosa bush (Acacia farnesiana)	Up to 5 cm basal diameter	1.8 L			
Prickly acacia (Acacia 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 Primary Industries & Fisheries, Qld, for further information.		

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 STAGE	RATE	CRITICAL COMMENTS		
		/10 L water			
Limebush	Isolated bushes up to 1.2 m	600 mL	Apply a 50 mL dose per 5 m ² of bush		
(Eremocitrus glauca)	high only		surface area.		
Ochna	Isolated bushes up to 1 m	300 mL			
(Ochna serrulate)	high only				
Tree Violet	Apply from late flowering to	600 mL	Apply a 50 mL dose per cubic metre of		
(Hymenanthera dentata)	green fruit up to 1.2 m high		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 (Mimosa invisa) Spinyhead sida (Sida acuta)	Apply before flowering	900 mL	Add Uptake Spraying Oil at 1 L/ha.		
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			
	Summer.	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)							
WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /ha	CRITICAL COMMENTS				
Woody and herbaceous weeds, as above	Pre-plant spray operations	600 mL – 1.8 L	Helicopter 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.				

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)	0 11: 1 (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 see		15 cm tall	000 1	
CRITICAL	Bathurst burr (Xanthum spinosum)	2 to 8 leaf Up to 20 cm tall	300 mL	
COMMENTS)	Noogoora burr	20 to 50 cm tall	450 mL	-
	(Xanthium pungens)	20 to 50 cm tall	450 IIIL	
	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		
	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), Dwarf amaranth		flowable	1141
	(A. macrocarpus),		(600 g/L)	Use the high rate (450 mL +
	Green amaranth		or 450 mL +	1.67 L) whene weeds are larger (7-15 cm tall/diameter).
	(A. viridis),		1.67 L	(7-15 cm tail/diameter).
	Redshank		atrazine	Starane Advanced is generally
	(A. cruentus)		flowable	more compatible with liquid
	Anoda weed		(600 g/L)	atrazine products.
	(Anoda cristata)		(000 g/ =)	(See GENERAL INSTRUCTIONS;
	Bladder ketmia (Hibiscus trionum)			COMPATIBILITY section).
	Black pigweed			,
	(Trianthema			Add a surfactant (see GENERAL
	portulacastrum)			INSTRUCTIONS; OILS and
	Butterfly pea			SURFACTANTS section).
	(Clitoria laurifolia)			
	Caltrop (Yellow vine) (Tribulus terrestris)			DO NOT add an oil to mixtures of
	Spineless caltrop			Starane Advanced and atrazine.
	(Tribulus micrococcus)			
	Cowvine (peach vine)			
	(Ipomoea lonchophylla)			
	Hairy wandering Jew			
	(Commelina benghalensis)			
	Mintweed (Salvia reflexa)			
	Euphorbia davidii	Cotyledons to 4	600 mL + 1.67 L	
		nodes up to 15 cm	atrazine	
		1222 24 10 10 0.11	(600 g/L)	
	Starburr	Up to 12 leaf and	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 + 3.75 L	
	(Arachis hypogaea)		atrazine	
			(600 g/L)	

Table B: Maize & Sweet Corn
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	Maize and sweet corn: From 6
secondary roots	(<i>Physalis angulata</i>) Wild gooseberry	Up to 15 cm tall	450 !	leaf to just before tasselling, use
are present, from 3	(Physalis minima)	15 to 30 cm tall	450 mL	dropper nozzles to prevent the
fully expanded leaves (10 cm tall)	Apple-of-Peru	Seedling plants up to		herbicides coming in contact with the crop's leaves and the growing
up to just before	(Nicandra physalodes)	15 cm tall		point (meristem).
tasselling.	Bathurst burr	2 to 8 leaf	300 mL	point (menstern).
(See CRITICAL	(Xanthum spinosum)	Up to 20 cm tall	0001112	
COMMENTS)	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	
	(Sesbania cannabina)	Up to 10 cm tall		
	Thornapples	2 to 8 leaf	450 mL	
	(Datura spp.)	Up to 15 cm tall		
	Volunteer sunflower	2 to 5 leaf	600 mL	
	(Helianthus annuus)	Up to 20 cm tall		
	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), Dwarf amaranth		(600 g/L)	114111.144501
	(A. macrocarpus),		or	Use the high rate (450 mL +
	Green amaranth		450 mL + 1.67 L	1.67 L) when weeds are larger (7-
	(A. viridis),		atrazine flowable	15 cm tall/diameter).
	Redshank			Starana Advanced is generally
	(A. cruentus)		(600 g/L)	Starane Advanced is generally
	Anoda weed			more compatible with liquid atrazine products.
	(Anoda cristata)			(See GENERAL INSTRUCTIONS:
	Bladder ketmia			COMPATIBILITY section).
	(Hibiscus trionum)			COMI ATIBILITI SCCIOTI).
	Black pigweed (Trianthema			Add a surfactant (see GENERAL
	portulacastrum)			INSTRUCTIONS; OILS and
	Caltrop (Yellow vine)			SURFACTANTS section).
	(Tribulus terrestris)			
	Spineless caltrop			DO NOT add an oil to mixtures of
	(Tribulus micrococcus)			Starane Advanced and atrazine.
	Cowvine (Peach vine)			
	(Ipomoea lonchophylla)			
	Hairy wandering Jew			
	(Commelina benghalensis) Mintweed			
	(Salvia reflexa)			
	` ,	0.11.	000 1 4071	
	Euphorbia davidii	Cotyledons to 4	600 mL + 1.67 L	
		nodes up to 15 cm	atrazine	
	Ot	11- 4- 40 lf d	(600 g/L)	
	Starburr	Up to 12 leaf and	900 mL	
	(Acanthospermum hispidum)	before flowering	or	
			450 mL + 1.67 L	
			atrazine	
	Voluntoer popults	Un to 1E am diameter	(600 g/L) 600 mL + 2.7 L	
	Volunteer peanuts (Arachis hypogaea)	Up to 15 cm diameter		
	(діасніз пуродава)		atrazine	
Swoot oom	Dlookhorny nightohoda	2 to F loof	(600 g/L)	
Sweet corn (Tas only)	Blackberry nightshade (Solanum nigrum)	3 to 5 leaf	600 mL	
3 to 5 leaf	Volunteer potatoes			
J IU J IEAI	(Solanum tuberosum)			
	(Colariani tazorodani)	l	l	

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

CROP GROWTH	WEEDS	WEED GROWTH	RATE	CRITICAL COMMENTS
STAGE	CONTROLLED	STAGE	/ha	
Spray when	Annual ground cherry	2 to 8 leaf	300 mL	Millets: DO NOT use mixes of
secondary roots	(Physalis angulata)	Up to 15 cm tall		Starane Advanced + atrazine on
have developed,	Wild gooseberry	15 to 30 cm tall	450 mL	Japanese millet
usually early to	(<i>Physalis minima</i>) Apple-of-Peru	Seedling plants up to		(Echicochloa esculenta).
mid-tillering, and not later than	(Nicandra physalodes)	15 cm tall		Characa Advanced v atractice and
before heads start	Bathurst burr	2 to 8 leaf	300 mL	Starane Advanced + atrazine can be safely applied to:
to form at the base	(Xanthum spinosum)	Up to 20 cm tall	0001112	French millet
of tillers.	Noogoora burr	20 to 50 cm tall	450 mL	(Panicum miliaceum)
(See CRITICAL	(Xanthium pungens)			Foxtail millet
COMMENTS)	Red pigweed	Up to 10 cm diameter	300 mL	(Setaria italica var. panorama)
,	(Portulaca oleracea)	10 to 30 cm diameter	450 mL	
	Sesbania pea	2 to 6 leaf	900 mL	
	(Sesbania cannabina)	Up to 10 cm tall	450	
	Thornapples	2 to 8 leaf	450 mL	
	(Datura spp.)	Up to 15 cm tall 2 to 5 leaf	COOI	
	Volunteer sunflower (Helianthus annuus)	Up to 20 cm tall	600 mL	
	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),	up to 10 om diamotor	(600 g/L)	(or on tandameter).
	Dwarf amaranth		or	Use the high rate (450 mL +
	(A. macrocarpus),		450 mL +	1.67 L) when weeds are larger (7-
	Green amaranth		1.67 L	15 cm tall/diameter).
	(A. viridis),		atrazine flowable	·
	Redshank (A. cruentus)		(600 g/L)	Starane Advanced is generally
	Anoda weed			more compatible with liquid
	(Anoda cristata)			atrazine products.
	Bladder ketmia			(See GENERAL INSTRUCTIONS;
	(Hibiscus trionum)			COMPATIBILITY section)
	Black pigweed			Add a surfactont (coo CENEDA)
	(Trianthema portulacastrum)			Add a surfactant (see GENERAL INSTRUCTIONS; OILS and
	Caltrop (Yellow vine)			SURFACTANTS section).
	(Tribulus terrestris)			
	Spineless caltrop			DO NOT add an oil to mixtures of
	(Tribulus micrococcus)			Starane Advanced and atrazine
	Cowvine (Peach vine)			
	(Ipomoea lonchophylla)			
	Hairy wandering Jew (Commelina benghalensis)			
	Mintweed			
	(Salvia reflexa)			
	Starburr	Up to 12 leaf and	900 mL	
	(Acanthospermum	before flowering	or	
	hispidum)	Soloto nonothing	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	WEEDS	WEED GROWTH	RATE	CRITICAL COMMENTS			
STAGE	CONTROLLED	STAGE	/ha				
Apply from 3 leaf to	Bedstraw	3 to 6 whorl	300 mL +	Add Uptake Spraying Oil at 500 mL/			
flag	(Galium tricornutum)		Uptake	100 L water.			
(Zadoks 13 to 39)	Black bindweed (Climbing buckwheat)	2 to 4 leaf	300 mL + Uptake ❶	Useful suppression only			
	(Fallopia convolvulus)	2 to 6 leaf	450 mL	Mixtures: Mixing partners with Starane			
			or	Advanced may reduce crop selectivity.			
			300 mL + 5 g	Apply at crop growth stages according to			
			metsulfuron	the mixing partner's recommendation.			
	01	4 to 0	(600 g/kg) ①				
	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	2 to 6 leaf	900 mL	metsulfuron mixtures in oats or durum			
	(Lamium amplexicaule)		or	wheat.			
	Spiny emex	2 to 4 leaf	300 mL + 5 g				
	(Emex australis)		metsulfuron				
			(600 g/kg) ①				
	Prickly lettuce	2 to 5 leaf	300 mL +				
	(Lactuca serriola)		Uptake				
	Volunteer lupins	2 to 8 leaf	or 600 mL 900 mL				
	(Lupin angustifolius)	2 to 8 lear	900 ML				
	Volunteer potato	10 to 15 cm tall		Plants 15 to 30cm tall will only be			
	(Solanum tuberosum)			suppressed.			
	Wireweed	2 to 3 leaf					
	(Hogweed)		300 mL + 5 g				
	(Polygonum aviculare)		metsulfuron				
			(600 g/kg) ①				
	Bittercress	Up to 8 leaf and up	300 to 900 mL	The Starane Advanced rate depends on			
	(Coronopus didymus)	to 15 cm diameter	+	what other weeds are present as listed			
	Mustards		metsulfuron	above.			
	(Sisymbrium spp.)		(600 g/kg) ①	See Mixtures comment above			
	Shepherd's purse (Capsella bursa-pastoris)		_ or	metsulfuron @ 5 g/ha (This mix does not			
	Turnip weed		Eclipse [®] ❶	control wild radish).			
	(Rapistrum rugosum)		or	Eclipse @ 5-7g/ha (use the 5 g rate on			
	Wild radish		MCPA LVE	turnip weed only).			
	(Raphanus raphanistrum)		or MCDA arrains	MCPA LVE (500 g/L) @ 700 mL/ha.			
	Wild turnip		MCPA amine	MCPA amine (500 g/L) @ 1 L/ha.			
	(Brassica tournefortii)						

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 months old	Annual ground cherry (Physalis angulata) Bathurst burr (Xanthum spinosum) Noogoora burr (Xanthium pungens) Wild gooseberry (Physalis minima)	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 possible, irrigate before application to stimulate weed growth. DO NOT treat crops growing on sandy or stony soils.
	Red pigweed (Portulaca oleracea)	Up to 10 cm diameter		DO NOT treat crops after the summer growing season (after end of March). 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	P GROWTH WEEDS CONTROLLED WEED GROWTH RATE			CRITICAL COMMENTS
STAGE		STAGE	/ha	
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	Apply from 2 to 3 leaf until flowering	Ground: 780 mL Aerial: 900 mL 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.
	(Ipomoea quamoclit) Milkweed (Euphorbia heterophylla)	Seedlings and young plants up to flowering	1.8 L or 1.38 L + 3.33 L atrazine flowable (600g/L)	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.
CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE /100 L water	CRITICAL COMMENTS
From early tillering to maturity	Stinking passion flower (Passiflora foetida)	Established or ratoon plants with at least 1.0m of regrowth	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	WEEDS	WEED GROWTH	RATE	CRITICAL COMMENTS
STAGE	CONTROLLED	STAGE	/ha	
4 to 6 leaf	Cleavers	2 to 6 leaf	600 mL	
	(Galium aparine)			
	Fumitory			
	(Fumaria spp.)			
	Shepherd's purse		600 mL	
	(Capsella bursa-pastoris)		+	
	Wireweed		5 L Asulox [®]	
	(Hogweed)			
	(Polygonum aviculare)			
8-10 leaf	Common sowthistle	2 to 5 leaf	600 mL	DO NOT apply Starane Advanced to
	(Sonchus oleraceus)			poppies later than the 8 to 10 leaf growth
	Prickly lettuce			stage as a reduction of alkaloid content
	(Lactuca serriola)			could occur.
	Black nightshade	cotyledon to 4 leaf	900 mL	
	(Solanum nigrum)			
	Fumitory	6 to 10 leaf		
	(Fumaria spp.)			
	Volunteer potato	From tuber initiation		This rate will provide season long control of
	(Solanum tuberosum)	to flower bud		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 Ripper 480 to control both grass and broadleaf weeds, refer to the Ripper 480 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 ❶	(See GENERAL INSTRUCTIONS; COMPATIBILITY section).		
Common sowthistle (Sonchus oleraceus) Prickly lettuce (Lactuca serriola)	2 to 5 leaf up to 10 cm diameter	600 mL ①			
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) (Emex australis)	2 to 8 leaf	300 mL ② + 5 g metsulfuron			
Wireweed (Hogweed) (<i>Polygonum aviculare</i>)	2 to 3 leaf up to 10 cm tall	(600 g/kg)			
Common sowthistle (Sonchus oleraceus) Prickly lettuce (Lactuca serriola)	2 to 5 leaf up to 10 cm diameter	300 mL 2 + 560 mL Ripper* 480			
Wireweed (Hogweed) (<i>Polygonum aviculare</i>	2 to 3 leaf up to 10 cm tall	(480 g/L glyphosate)			

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

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 FALLOW						
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) 9	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 (<i>Polymeria pusilla</i>)	2 to 10 leaf up to 20 cm diameter	600 mL ①	DO NOT treat plants showing symptoms from previous treatment.			
Red pigweed (Portulaca oleracea) Rhynchosia	Up to 10 cm diameter Seedlings to early	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 minima) Silverleaf nightshade	flowering Full flower to early	450 to 600 mL	treatments. Add Uptake Spraying Oil at the rate of 1 L/100 L			
(Solanum elaeagnifolium)	berry-set (usually Dec - Feb)		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 up to 20 cm diameter	600 mL 0	Add Uptake Spraying Oil (see GENERAL INSTRUCTIONS; OILS and SURFACTANTS section).			
Thornapples (<i>Datura</i> spp.) Sesbania pea	2 to 8 leaf up to 15 cm tall 2 to 6 leaf up to	450 mL ① 900 mL ①				
(Sesbania cannabina) Volunteer sunflowers	10 cm tall 2 to 5 leaf up to	600 mL ①				
(Helianthus annuus) Wild gooseberry (Physalis minima)	20 cm 2 to 8 leaf, up to	450 mL ①				
Red pigweed (Portulaca oleracea)	15 cm tall Up to 10 cm diameter	225 mL + 1.125 L	When mixing with Ripper 480 to control both grass and broadleaf weeds, refer to the Ripper 480 label			
Rhynchosia (Rhynchosia minima)	Seedlings to early flowering	Ripper 480 (480 g/L glyphosate)	for use rates and adjuvants recommended for the grasses. (See GENERAL INSTRUCTIONS; COMPATIBILITY			
Bellvine (Ipomoea plebeia)	Pre-flowering	300 mL + 1.125 L	section)			
Bladder ketmia (Hibiscus trionum) Black bindweed (Climbing buckwheat)	4 to 8 leaf, up to 10 cm tall 2 to 10 leaf up to 20 cm diameter	Ripper 480 (480 g/L glyphosate)				
(Fallopia convolvulus) 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) Spineless caltrop	10 to 30 cm diameter Up to 15 cm					
(<i>Tribulus micrococcus</i>) Thornapples	diameter 2 to 8 leaf up to 15					
(Datura spp.) Sesbania pea	cm tall 2 to 6 leaf up to 10					
(Sesbania cannabina)	cm tall					

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

SUMMER FALLOW						
WEEDS CONTROLLED	WEEDS CONTROLLED WEED GROWTH STAGE		CRITICAL COMMENTS			
Black bindweed (Climbing buckwheat) (Fallopia convolvulus) Red pigweed (Portulaca oleracea) Silverleaf nightshade (Solanum elaeagnifolium)	10-12 leaf up to 30 cm diameter Up to 60 cm diameter Full flower to early berry-set (usually Dec - Feb)	450 mL + 1.125 L Ripper 480 (480 g/L glyphosate) 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			
Volunteer peanuts (Arachis hypogaea)	Up to 15 cm diameter	600 mL + 3.75 L atrazine (600 g/L)	term control. Add a surfactant (see GENERAL INSTRUCTIONS; OILS and SURFACTANTS section). Important: (See GENERAL INSTRUCTIONS; COMPATIBILITY section).			

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.

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					
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.

GENERAL INSTRUCTIONS

MIXING:

- Starane Advanced 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 Starane Advanced 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 Starane Advanced. Add the remainder of the diesel 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 Ripper 480 (glyphosate) 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™, diclofop methyl, Dow AgroSciences (2,4-D) Amine 625, Eclipse® , Esteron™ LV 680, Garlon™ 600

glyphosate, Lontrel[™], MCPA, metsulfuron-methyl, Ripper[™] 480 (see below), Topik[®] 240 EC (see below), Tordon[™] 75-D, Tordon[™] 242, Touchdown[®], Wildcat[®] 110 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 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 (/ha)	Water Hardness		Minimum Water Volume (L/ha)		Comments	
		Soft	Medium	Hard	Ground	Aerial	
Starane	450 mL	✓	√	✓	50	35	
Starane + Gesaprim® 600 FW	450 mL + 1.67 L	1	1	1	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.

RIPPER™ 480 (glyphosate)

When mixing Starane Advanced with Ripper 480 to control both grass and broadleaf
weeds, refer to the Ripper 480 label for use rate recommended for grasses. DO
NOT use Ripper 480 at less than 1.125 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 Ripper 480 (or other glyphosate formulations) 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. AboundTM 400).

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 (ASABE-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 (ASABE-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 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 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 (ASABE-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 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 - 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 WEED WARNING



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 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 Dow AgroSciences 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.

The method of disposal of the container depends on the container type. Read the STORAGE AND DISPOSAL instructions on the label that is attached to the container.

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 Dow AgroSciences Emergency Services at 1800-033-882.

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 goggles and contaminated clothing.
- · Wash hands after use.

FIRST AID

• If poisoning occurs, contact a doctor or Poisons Information Centre. Phone: *Australia* 13 11 26.

MATERIAL SAFETY DATA SHEET

Additional information is listed on the Material Safety Data Sheet for **STARANE ADVANCED HERBICIDE** which is available from Dow AgroSciences on request. Call Customer Service Toll Free on 1-800 700 096 or visit www.dowagrosciences.com.au

NOTICE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of the product contrary to label instructions or under off-label permits not endorsed by Dow AgroSciences, or under abnormal conditions.

EMERGENCY RESPONSE (All Hours)
6 FROM ANYWHERE IN AUSTRALIA
1-800 033 882
(LOCAL CALL FEE ONLY)

IN A TRANSPORT EMERGENCY ONLY $\begin{array}{c} DIAL\,000 \\ FOR\,POLICE\,OR\,FIRE\,BRIGADE \end{array}$

Barcode for stock identification

D.O.M/Batch No:

APVMA Approval No:62287/0109