



IMPORTANT: READ THIS LEAFLET BEFORE USE

Contents 20L, 110L & 1000L

APVMA Approval no. 81719/114633

DIRECTIONS FOR USE Restraints

To ensure herbicide absorption, DO NOT disturb weeds by cultivation, sowing or grazing for 1 day after treatment of annual weeds and 7 days for perennial weeds, except where noted.

RATE	CRITICAL COMMENTS
	Read Application Checklist before using.
	 Annual weeds may be sprayed anytime they are ac-
1.3 – 2 L/ha	tively growing.
	lively growing.
	Use the lower rate on weeds up to 15 cm tall; increase
330-500mL per 100L	to the higher rate where weeds are over 15 cm tall.
	to the higher rate where weeds are over 15 cm tail.
	Visible symptoms develop in 3-7 days but complete
50-65 mL per 15L	desiccation may take 14-21 days under cool conditions.
	Smart 540 Herbicide does not provide residual weed
	control. Repeat treatments may be necessary to control
	later germinating weeds.
	For residual control of annual weeds, Smart 540 Herb-
	icide may be tank-mixed with certain residual herbicides.
	See Tank Mixtures/Herbicides for directions.
	RATE BOOM: 1.3 – 2 L/ha Handgun : 330-500mL per 100L Knapsack : 50-65 mL per 15L

SITUATION	STATE	WEEDS CONTROLLED	RATE vol/ha	CRITICAL COMMENTS
TREE AND VINE CROPS. Avocado, Banana, Blueber- ries, Citrus fruit, Custard apples, Duboisia Figs - des- sert, Guava, Ki- wifruit, Litchi, Man- go, Monstera - fruit, Nuts (including Al- mond, Pecan, Mac- adamia, Pistachio and Walnut), Olives. Pawpaw, Persim- mons, Pome fruit,	All States	Amaranth, Barley grass ,Barnyard grass Brome grass , Caltrop, Canary grass (Annual phalaris),Capeweed , Chickweed, Deadnettle, Dou- blegee , Liverseed grass, Mintweed ,Paterson's Curse , Pigweed Ryegrass Silvergrass Spear thistle, Thornapple, Variegated thistle , Wild mus- tard, Wild oats, Wild turnip, Winter grass	Boom : 1.3 – 2 L/ha Handgun: 330-500mL per 100L Knapsack: 50-65mL per 15L	 Apply as a directed or shielded spray or using wiper equipment. DO NOT apply as a spray near trees or vines less than 3 years old unless they are protectively shielded from spray and spray drift. DO NOT allow wiper surface to contact any part of the tree, vine or palm. Citrus fruit, Nuts, Olives, Pome fruit & Vineyards. DO NOT allow spray drift to contact green bark or stems, canes, laterals, suckers, fresh wounds, foliage or fruit. Tea. Apply a maximum of 2L/ha by shielded boom or directed off-centre nozzle or 330mL/100L by directed handgun or knapsack to avoid application to the crop.
Raspberries, Stone fruit, Tea, Vineyards				 All other crops. DO NOT allow spray or spray drift to contact any part of the plant including the trunk. CAUTION: Where split bark on Kiwifruit and green stems on Paw- paw occur, extreme care is required. For residual control of annual weeds, Smart 540 Herbicide may be tank-mixed with compati- ble herbicides which are labelled for use in the above crops. See Tank Mixtures/Herbicides for directions.

SITUATION	STATE	WEEDS CONTROLLED	RATE vol/ha	CRITICAL COMMENTS								
SOUTHERN AUSTRALIA Prior to sowing a crop or pasture with full soil dis- turbance by culti- vation or sowing with a tyned im- plement	AUSTRALIA Prior to sowing a crop or pasture with full soil dis- turbance by culti- vation or sowing with a tyned im-	VIC, NSW	VIC, NSW	Barley Grass, Brome grass, Volunteer cereals, Wild oats	330 – 660mL pre tillering 660mL – 830mL post tillering	Treat actively growing weeds not under stress from low moisture, frost, cold, dis- ease or waterlogging. If heavy grazing has occurred allow regrowth to 6-8 cm before spraying and use the higher rate. RATE SELECTION: Increase to higher rates late in the season or when treating under cold/overcast conditions.						
pienien	Annual phalaris (Canary grass), Annual ryegrass, Silvergrass, Winter grass	660mL – 830mL pre tillering 830mL – 1.0L post tillering	FULL DISTURBANCE with cultivation or sowing with a tyned implement may start 1 day after treatment (7 days if Dock, Phala- ris, Skeleton weed, Soursob or Sorrel are present) and should occur within 21 days after treatment. Where cultivation or sowing does not occur within 21 days, new weed growth may require further treatment. When treating light infestations of seedling annual grasses (pre-tillering) and annual broadleaved weeds (less than 8cm dia/height) cultivation or sowing may start 6 hours after treatment and should occur within 21 days									
		Calomba daisy, Cape- weed, Doublegee (Spiny Emex)	330 – 660mL less than 8 cm diameter 660mL – 1.0L greater than 12 cm diame- ter	CROP ESTABLISHMENT: Sowing should not proceed until conditions allow the for- mation of a satisfactory seedbed. See Crop Establishment for directions								
											Amsinckia, Fumitory, Pat- erson's Curse, Saffron Thistle, Scotch Thistle, Spear thistle, Variegated thistle, Volunteer lupins, Wild turnip	660mL – 830mL less than 12 cm diameter 830mL – 1.0L greater than 12 cm diame- ter
	Dock (Seedling)	660mL – 1.0L	TANK MIXTURES: For improved control of clover add Banvel [®] (dicamba). Read and follow all label directions, restraints, plant back periods, withholding periods, regional use restrictions and safety directions for the tank mix products. See Tank Mixtures for directions PERENNIAL WEEDS: For Perennial									
		Perennial phalaris, Skele- ton weed fully emerged rosettes (NSW only), Sor- rel, Soursob, Sub clover	1.0L	phalaris, Soursob, Skeleton weed and Sor- rel, this product will provide knockdown, seasonal suppression and reduction in treated plant numbers.								
	Tas only	All the above weeds	1.0 – 2.0L	TASMANIA: Use 1.0L/ha on annual weeds. Increase to 2.0L/ha where perennial weeds are being treated. To control White clover and improve control of Sorrel and Dock, add 1L/ha of Banvel [®] (dicamba). Observe Banvel [®] label directions and plant back periods.								

SITUATION	STATE	WEEDS CONTROLLED	RATE vol/ha	CRITICAL COMMENTS
SOUTHERN AUSTRALIA Prior to establish- ing a crop or pas- ture with an im- plement that gives	NSW SA, VIC, WA, only	Barley grass, volunteer cereals, Wild oats	660mL – 1.0L	Treat actively growing weeds not under stress from low moisture, frost, cold, dis- ease or waterlogging. If heavy grazing of mature plants has occurred allow regrowth to 6-8 cm before spraying and use the higher rate.
minimal or no soil disturbance				RATE SELECTION: Use the lower rate on young weeds, increase to the higher rate where grasses reach full tillering or where broadleaf weeds reach stem elongation/budding. Increase to higher rates in spring or when treating under cold/overcast conditions.
		Brome grass, Canary grass, Capeweed, Varie-	830mL – 1.3L	AERIAL APPLICATION: Use the higher rates. See also Aerial Application.
		gated thistle, Winter grass		ANNUAL RYEGRASS, SILVERGRASS AND PERENNIAL GRASSES: Add a non- ionic wetting agent, 200mL/100L of spray solution. When treating dense infestations of Silvergrass, use of low volume nozzles (eg. SS 11001, Hardi No 10) and a spray volume of 70 L/Ha or more is recommend- ed to improve plant spray coverage.
		Annual ryegrass, Pater- son's curse, Saffron this- tle, Scotch thistle, Silver- grass, Spear thistle, Wild mustard, Wild radish, Wild turnip	1.0 – 1.3L	TANK MIXTURES: For improved control of Dock, Sorrel and Sub clover add Banvel® (dicamba). Read and follow all label directions, restraints, plant back periods, withholding periods, regional use restrictions and safety directions for the tank mix products. See Tank Mixtures for directions. Addition of Ammonium Sulphate, 2kg/100L, may improve control when treating under adverse environmental conditions.
		Erodium, Perennial phala- ris, Plantain, Sorrel, Sub clover, Yorkshire fog	1.25 – 1.65L	PASTURE OR CROP ESTABLISHMENT: Do NOT sow into excessive trash. Trash may be removed by grazing after treat- ment. Grazing may commence one day after treatment of annual weeds (small) and 7 days for perennial weeds. Delay grazing for 3 days where annual weeds are large. Sowing may proceed when excessive trash is removed, but not sooner than one day after treatment of annual weeds and 7 days for perennial weeds. See also Crop Estab- lishment
		Dock, Flatweed	1.65L	AERIAL (OR SURFACE) SEEDING: Delay seeding until trash is completely removed by grazing and/or plant decay. When estab- lishing pasture, ensure application of ferti- lizer and insecticides and follow-up man- agement is undertaken as required
	Tas only	All the above weeds	1.0 – 2.0L	TASMANIA: Use 1.0L/ha on annual weeds. Increase to 2.0L/ha where perennial weeds are being treated. To control White clover and improve control of Sorrel and Dock, add 1L/ha of Banvel® (dicamba). Observe Banvel® label directions and plant back periods.

SITUATION	STATE	WEEDS CONTROLLED	RATE vol/ha	CRITICAL COMMENTS
SOUTHERN AUSTRALIA To commence a fallow	NSW, VIC, SA, WA only	Barley grass, volunteer cereals, Wild oats	660mL – 1.0L	Treat actively growing weeds not under stress from low moisture, frost, cold, dis- ease or waterlogging. If heavy grazing has occurred allow regrowth to 6-8 cm before spraying and use the higher rate.
				RATE SELECTION: Use the lower rate on young weeds, or where cultivation is to follow within 21 days, increasing to the higher rate where grasses reach full tillering or where broadleaf weeds reach stem elongation/budding.
		Annual ryegrass, Brome grass, Capeweed, Paterson's curse (rosette), Saffron thistle, Scotch thistle, Silvergrass, Spear thistle, Wild mustard, Wild radish, Wild turnip	1.0 - 1.3L	ANNUAL RYEGRASS, SILVERGRASS AND PERENNIAL GRASSES: Add a non- ionic wetting agent, 200mL/100L of spray solution. When treating dense infestations of Silvergrass, use of low volume nozzles (eg. SS 11001, Hardi No 10) and a spray volume of 70 L/Ha or more is recommend- ed to improve plant spray coverage.
				HOARY CRESS: Treat from late rosette to early flowering
				SOURSOB: Treat at tuber exhaustion
		Hoary cress, Soursob	1.0L	COUCH: Use the higher rate on dense infestations. Apply sequential treatments during summer and autumn, with autumn being most effective. Repeat applications will be required for full control. For im- proved control use in conjunction with culti- vation.
		Couch	1.0 – 2.0L	TANK MIXTURES : Read and follow all label directions, restraints, plant back peri- ods, withholding periods, regional use re- strictions and safety directions for the tank mix products. See Tank Mixtures for direc- tions.
	TAS only	All the above weeds	1.0 – 2.0L	TASMANIA: Use 1.0L/ha on annual weeds. Increase to 2.0L/ha where perennial weeds are being treated. To control White clover and improve control of Sorrel and Dock, add 1L/ha of Banvel (dicamba). Observe Banvel label directions and plant back periods
PASTURE TOPPING For annual grass, Capeweed and Calomba daisy seed-set reduction	WA, SA, VIC, TAS NSW only	Barley grass, Brome grass, Capeweed, Silvergrass	120mL – 300mL	Remove stock prior to treatment to al- low even regrowth. Apply to Capeweed and Annual ryegrass at FLOWERING. For other grasses apply from HEAD to MILKY DOUGH stage. Use the higher rate for dense infestations or where An- nual ryegrass is present.
		Annual ryegrass, Calomba daisy	300mL	Apply before signs of plants "haying off'. Reduction in pasture legume popu- lation may occur as a result DO NOT apply to clover or medic crops intended for seed or hay.
SEED- HEAD SUPPRESSION OF PERENNIAL GRASSES	VIC, TAS, NSW , WA, SA, only	Bent grass	250 – 420mL	TIMING : Treat from late October to late November. Apply before seedheads have emerged. Use the higher rate where growth is excessive and renovation is in- tended the following autumn. FOLLOW-UP MANAGEMENT: Graze hard after spraying

SITUATION	STATE	WEEDS CONTROLLED	RATE vol/ha	CRITICAL COMMENTS
BENT GRASS INFESTED PASTURE For con- trol/suppression prior to establishing crops or improved pasture species	VIC, TAS only	Most annual weeds and Bent grass	1.6L	TIMING: Apply to actively growing plants in late spring when they have some seed- head development, but before summer moisture stress. Remove stock to ensure there is full leaf growth. FOLLOW-UP MANAGEMENT: Full dis- turbance with a tyned implement should follow 10-21 days after spraying. Then fol- low with a summer crop, and/or reseeded pasture or crop the following autumn.
PASTURE MANIPULATION	NSW, VIC, WA only	Carpet grass, Kikuyu, Paspalum	920mL – 4.0L	RATE SELECTION: For suppression apply the low rate. Where complete control is required apply up to the high rate
For suppression or control of pasture species prior to drilling, improved pasture, forage species, soybeans or Leucaena	QLD only	Carpet grass, Paspalum	920mL – 4.0L	BAND SPRAYING: Band spraying may be done immediately after the sowing opera- tion. Mount the nozzles behind the coul- ter/tyne/press wheel assembly of the band seeder. Adjust to spray 0.5 to 1.0m strips. Ensure minimal disturbance of the pasture. Excessive dust created in the seeding
		Kikuyu	420mL – 4.0L	operation may reduce herbicide activity. Pasture seed must be drilled at the appro- priate depth and covered by soil.
BAND SPRAYING May also be ap- plied as a band or strip spray		Barbed wire grass, Black speargrass, Love grass- es, Red Natal grass, Wire grasses	2.0L	LEUCAENA (QLD ONLY): Apply 1.6L/ha through a single taper fan nozzle LF1-80 mounted at the rear of the single row planter providing a 1m swath. Planting rows to be 4m apart.
POA TUSSOCK INFESTED PASTURE For reduction of ground cover al- lowing pasture renovation	NSW, Tas, VIC, QLD only	Most annual weeds and suppression of Poa tus- sock	2.0 – 2.6L	TIMING: Graze heavily, then remove stock at least 14 days before spraying to allow fresh regrowth. Apply to actively growing plants after the autumn break but before heavy frosts (March – May) APPLICATION: Increasing to the higher rate may give more effective reductions. If aerial spraying see Aerial Application. FOLLOW-UP MANAGEMENT: Sowing may start from 14 days after spraying. It is essential that correct follow-up pasture establishment and management occurs after treatment. Spot treatment will limit re- infestations.

NORTHERN AUSTRALIA In fallows or prior to sow- ing a crop	QLD, NSW only	Annual phalaris (Canary grass), Barley grass, vol- unteer cereals, Wild oats Barnyard grass, Button grass, Co-	330 – 660mL 660mL –1.3L	Treat actively growing weeds not un- der stress from low moisture, frost, cold, disease or waterlogging. If heavy grazing has occurred allow regrowth to 6-8 cm. NOTE that under summer (hot) conditions, dense infestations of Barnyard grass and Liverseed grass may require follow-up treatment for complete control. In winter (cold) con- ditions, symptoms on Deadnettle may be slow to develop. RATE SELECTION: Use the lower
		lumbus grass (seedling), Liv- erseed grass, Native Millet, Stinkgrass (Lovegrass), Vol- unteer Sorghum		rate on young weeds, increase to the higher rate where grasses reach full tillering or where broadleaf weeds reach stem elongation/budding. At more advanced stages of growth cer- tain broadleaf weeds require a higher rate range or the addition of 2,4-D Ester. CROP ESTABLISHMENT: Sowing should not proceed until conditions
				allow for a formation of a satisfacto- ry seedbed. See Crop Establishment for directions.
		Australian blue- bell (QLD only), Cudweed, Fumi- tory, Mexican poppy, New Zea- land spinach, Saf- fron thistle, Spear thistle, Spurge, Stinking goose- foot	660mL - 1.0 L	TANK MIXTURES: Read and follow all label directions, restraints, plant back periods, withholding periods, regional use restrictions and safety directions for the tank mix products. DO NOT tank mix with atrazine when spraying Barnyard grass or Liverseed grass.
				AERIAL APPLICATION: For instruc- tions on Aerial application under hot conditions, see Aerial Applica- tion. DO NOT apply by aircraft when temperature is above 30°C
		Black (giant) pig- weed, Boggabri weed, Caltrop (Yellowvine), In- dian hedge mus- tard, Mintweed, Summer grass	330 – 660mL up to 5 true leaves or 3cm diameter/ height 660mL – 1.0L greater than 3cm diameter/height	
		Annual ground cherry (Goose- berry), Bladder Ketmia, Camel melon, False caster oil plant/Thornapple, Noogoora burr, Turnip weed, Wild lettuce, Wild tur- nip, Wireweed	660mL – 1.0L prior to stem elongation/ bud- ding. After that use 330mL – 1.0L plus 500 to 700 mL 2,4-D Ester (800g/L) OR 1.0 – 1.3L of this product alone	

		Pigweed	660mL - 1.3L up	Use a higher rate on larger weeds.
			to 20cm diameter	Control of Pigweed over a wide range of growth stages can be obtained with the addition of metsulfuron-methyl. Observe re-cropping intervals.
		Sowthistle/ Milkthistle	500 – 660mL rosette up to 3cm diameter 660mL – 1.3L greater than 3cm diameter	Previously grazed plants may be diffi- cult to control without allowing full recovery
		Couch	1.0 – 2.0L	Use the higher rate for dense infesta- tions. Apply sequential treatments during summer and autumn, with au- tumn being most effective. Repeat applications may be required for full control. For improved control use in conjunction with cultivation
		Johnson grass	1.3 – 2.0L	Use the higher rates on plants ap- proaching seedhead stage. Apply to plants with a minimum of 30 cm new growth. Sequential treatments will be required for long term control.
		Nutgrass	2.0 + 2.0L	Make first application to actively grow- ing plants when at least 20% have reached the head stage (normally about February). After allowing maxi- mum re-emergence to occur (normally in 6-8 weeks), it is essential to make a second application. NOTE: Follow-up treatments should be made as part of a Nutgrass control program.
SORGHUM CONTROL Pre-harvest	QLD, NSW only	Sorghum, Grain Sorghum DO NOT apply to	1.0 or 1.3L	DO NOT apply if crop is under stress from low moisture, frost, cold or water- logging.
		varieties intended for seed produc- tion or varieties prone to lodging		RATE SELECTION: Use the lower rate for control of crop and late tillers and suppression of ratoon regrowth. Use the higher rate for improved suppression of ratoon regrowth.
				TIMING: Apply when grain moisture is less than 25%. Application can be made when moderate browning has occurred.
				CAUTION: Treatment may increase potential for CROP LODGING, particu- larly if prior moisture stress has oc- curred. Harvest as soon as sufficient dry down has occurred to avoid possi- ble lodging
				CAUTION: Sorghum may be naturally toxic to stock.

SORGHUM CONTROL	QLD,	Sorghum stubble,	660mL – 1.0L for	APPLY UNDER GOOD GROWING
Post-harvest	NSW only	Grain sorghum	fresh regrowth from slashed stubble. 1.0 – 1.3L for standing stubble if sufficiently green and for fresh spring re- growth	 CONDITIONS ONLY. DO NOT apply if plants are under stress from low moisture, frost, cold or waterlogging. SLASHED STUBBLE AND SPRING REGROWTH: Apply when fresh regrowth is at least 20 cm high. STANDING STUBBLE: Apply only if sufficient green leaf is present. If grazing has occurred allow regrowth to 20 cm high before treatment. RATE SELECTION: Use the lower rate for knockdown and regrowth suppression where cultivation is to follow. Increase to the higher rate for improved regrowth control. NOTE: Variable results occur where the crop has been subject to stress or the growing conditions are marginal. CAUTION: Sorghum may be naturally
SUGAR CANE	QLD,	Sugar Cane ra-	2.6 - 6L	toxic to stock APPLY UNDER GOOD GROWING
Ratoon spray out	NSW	toon regrowth		CONDITIONS ONLY to actively grow- ing ratoons 60 – 120 cm tall. DO NOT apply if plants are under stress from low moisture, frost, cold or waterlog- ging. Use the lower rate for suppres- sion or where cultivation is to follow. Use the higher rate for control.
RICE Direct drilling	NSW only	Annual phalaris (Canary grass), Annual ryegrass, Barley grass, Burr medic, Sub- clover, Winter grass	660mL – 830mL	This product is less effective on drought stressed plants. In drought conditions a pre-watering prior to spraying is recommended. In grazed situations, if heavy grazing has oc- curred allow regrowth to 6-8 cm be- fore spraying.
				ANNUAL RYEGRASS: Add non-ionic wetting agent at 200mL/100L spray solution and when dominant use the higher rate.
				SOWING: Direct drilling may take place 1 – 14 days after spraying. This product does not provide residual weed control. Permanent water and approved selective herbicides should be used to provide continual control of weeds.

COTTON	QLD,	Bathurst burr,	830mL - 1.6L	Lise the lower rate on light infectations
PRE-HARVEST	NSW only	Noogoora burr, Winter annual	030111L - 1.0L	Use the lower rate on light infestations of small weeds, where the crop cano- py allows adequate spray coverage of
Do not use on crops in-	Only	weeds including		the weeds. Increase to the higher rate
tended for seed produc-		Sowthistle/		when the crop canopy may limit spray
tion		Milkthistle		coverage, when treating dense infes-
				tations, or when treating larger weeds. Apply alone or in tank mixtures with
				Dropp [®] or Harvade [®] . Apply when at
				least 60% of bolls are open and imma-
				ture bolls cannot be easily cut with a sharp knife. Where a leafy canopy
				limits spray coverage, reduced weed
		Nutaraa (aaa	1.6L	control can be expected. For better
		Nutgrass (sea- sonal suppression	1.6L	results under these conditions, delay
		only)		application until canopy re-opens fol- lowing initial conditioning treatment.
		.,		lowing initial conditioning treatment.
				Where control of Nutgrass or Noogoo-
				ra burr is required, treatment should
				be applied prior to the onset of frosts. When tank mixed with defoliants, a
				slightly higher proportion of cotton leaf
				may be retained, particularly where
				the higher rate is used. Read and fol-
				low all label directions for tank mix products.
COTTON	QLD,	Refer to weeds		Apply this product to weeds growing
	NSW	controlled section		between crop rows using a shielded
Shielded Sprayers	only	Northern Australia in fallows or prior		sprayer. Do not apply in crops less than 20 cm high. Do not allow spray or
		to sowing a crop		spray drift to contact any part of the
				cotton plants as severe injury or de-
				struction may result.
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NOT TO BE USED FOR ANY PURPOSE OR IN ANY MANNER CONTRARY TO THIS LABEL UNLESS AU-THORISED UNDER APPROPRIATE LEGISLATION.

WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED

GENERAL INSTRUCTIONS

Product Description

Smart Loaded 540 Herbicide is a non-selective herbicide that will control most emerged weeds and plants. It provides no residual weed control and may therefore be used before sowing any crop, but not prior to transplanting tomato seedlings.

If required, Smart Loaded 540 Herbicide can be mixed with certain other herbicides to achieve both knockdown and residual weed control (see Tank Mixtures).

Smart Loaded 540 Herbicide is absorbed by foliage and green stems and moves into the root system. Weeds should be actively growing when treated. Do not treat weeds under poor growing or dormant conditions (such as occur in drought, waterlogging, disease, insect damage or following frosts), as reduced weed control may result. Reduced results may also occur when treating weeds heavily covered with dust or silt. Prior herbicide application may also induce stress in weeds.

For annual weeds, it may be 3 to 7 days before the effects of the treatment become apparent; for perennials, it may be as much as 2 to 3 weeks or more if cool and cloudy.

Smart 540 Herbicide is a non-volatile liquid that mixes readily with water. Just mix with the required volume of water, add a non-ionic wetting agent, and spray.

Rain occurring up to 6 hours after application may reduce effectiveness. Heavy rainfall within 2 hours of application may wash the chemical off the foliage and a repeat treatment may be required. Delay treatment of plants wet with dew or rain, if water droplets runoff when plants are disturbed.

Avoid contact with foliage, green stems or fruit of crops, desirable plants and trees, as severe injury or destruction may result.

Smart Loaded 540 Herbicide is compatible with certain herbicides, insecticides and additives (see Compatibility). The active constituent of Smart Loaded 540 Herbicide is 540 g/L glyphosate present as the monoethanolamine salt.

A withholding period for stock is not required, however, it is recommended that grazing of treated plants be delayed for one day after treatment of annual weeds, or 7 days if perennial weeds are present to ensure absorption of Smart Loaded 540 Herbicide.

Certain plants (eg. soursob, variegated thistle) may be naturally toxic to stock. When known toxic plants are present, do not allow stock to graze until complete browning of treated plants has occurred.

Resistant Weed Warning



Smart Loaded 540 Herbicide is a member of the Glycines group of herbicides. The product has the inhibition of EPSP synthase mode of action. For weed resistance management, Smart Loaded 540 Herbicide is a Group M Herbicide. Some naturally occurring weed biotypes resistant to Smart Loaded 540 Herbicide and other Group M 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 Smart Loaded 540 Herbicide or other Group M Herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Crop Smart Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

Crop Establishment

This product is recommended for control of emerged weeds prior to crop establishment. Suitable cultivation and/or sowing operations are required to produce the most satisfactory seedbed for crop germination and development, proceed as follows:

- Spray Smart Loaded 540 Herbicide early when the weeds are young.
- If weeds are few and the soil is friable, you can start seeding as early as one day after spraying.
- If the weed density is high, you should delay sowing until the dead weeds are sufficiently decayed, to ensure that crop emergence is not delayed as a result of dead green or decaying weeds being incorporated by cultivation or sowing. This is particularly important in cold or wet weather. Grazing will help to reduce the weed
 - density, and you can assist weed decay by cultivation to leave trash on the surface.

• If seedbed conditions are marginal, be careful to seed at the correct depth. Do not use pre-emergent herbicides if their labels indicate that they may delay crop emergence.

MIXING

NOTE: Reduced results may occur if water containing soil is used, eg. water from ponds and unlined ditches; or if hard water containing calcium salts is used.

Smart Loaded 540 Herbicide is a non-volatile liquid that mixes readily with water. DO NOT mix or store or apply this product in galvanised steel, unlined steel containers or spray tanks, since a highly flammable gas mixture may be formed. So use only spray tanks and equipment made of plastic or plastic lined, fibreglass, rubber, aluminium, brass, copper, or stainless steel.

1. Make sure the spray tank is completely free of previous spray residues.

2. Half fill the spray tank with clean water. Where possible avoid using turbid water, or hard water containing calcium salts, as this may reduce weed control.

- 3. If Smart Loaded 540 Herbicide is being used alone, go to step 5.
- 4. If Smart Loaded 540 Herbicide is being used with insecticides, other herbicides or additives (see *Tank Mix-tures*), add these products now according to their label directions.
- 5. Add the required volume of Smart Loaded 540 Herbicide, and mix well. Mechanical agitators may cause excessive foaming and should not be used unless required by any tank mix partners.

6. Add the rest of the water. Near the end, add a non-ionic wetting agent, see below. Make sure the filling hose is submerged to avoid excessive foaming, and on completion remove it immediately to avoid back siphoning into the water supply. Use the tank mix promptly. And certainly within 5 days since a gradual loss of activity will occur.

Spray tanks, pumps, lines and nozzles should be thoroughly rinsed with clean water following application to prevent corrosion.

Surfactant Addition

The use of a non-ionic surfactant may improve weed control where water rates are high or product rates low. Use the following amounts of non-ionic wetting agent per 100 L of spray mix:

- 200 mL of a 1000g/L wetting agent
- 300 mL of a 600g/L wetting agent

Do not add any other agricultural chemicals, spraying oils or other materials except as directed on the label.

APPLICATION

Smart Loaded 540 Herbicide is a non-selective translocated herbicide. Direct spray contact or even slight drift may cause severe injury or destruction of any growing crop or other desirable plants including trees. Thoroughly flush your mixing and spray equipment with clean water after use.

Ground Application

- Apply 25 100 L of spray mix per hectare.
- Where possible use fan nozzle equipment with pressures of 240-280 kPa.
- Set the boom high enough to ensure double overlap of nozzle patterns at the top of the weed canopy.

Aerial Application

- Use aerial spraying only in pasture or fallow before establishing new pasture, field crops or fodder crops, or for pre-harvest application to Sorghum. Do not apply Smart Loaded 540 Herbicide by air within intensive cropping areas as the consequences of accidental drift damage are too extreme.
- Do not exceed 2.6 L of Smart 540 Herbicide per hectare.
- Use a spray volume of at least 20 L/ha with Micronair or boom equipment, using an average droplet size (or VMD) of 250-300 microns and a swath of 15-17 metres wide.
- On hilly terrain, increase the water volume to 30-80 L/ha and the minimum average droplet size to 300 micron.
- At 25°C increase the water volume to at least 30 L/ha and the minimum average droplet size to 300 micron to compensate for evaporation. Do not spray by air at temperatures above 35°C as excessive evaporation may occur that will reduce weed control.
- Drift is likely when droplet size is 150 microns or less, when wind speed is near zero or over 8 km/hr, the air is hot and dry, or there is a temperature inversion. Do not spray under these conditions.
- After each day of spraying, thoroughly wash the aircraft and landing gear with clean water to remove herbicide residues.

Drift Warning

DO NOT use when breeze is blowing towards nearby desirable plants. DO NOT apply under weather conditions, or from spraying equipment that may cause spray to drift onto nearby susceptible plants, crops, cropping lands or pastures.

Tank Mixtures — Compatibility

Smart Loaded 540 Herbicide may be tank-mixed with the following. Read and follow all label directions, restraints, plant-back periods, withholding periods, regional use restrictions and safety directions for the tank mix product:

Herbicides: 2,4-D Ester, dicamba, metsulfuron-methyl, chlorsulfuron, Goal CT[®], atrazine flowable or granular (Do not apply the tank mix for control of Barnyard grass or Liverseed grass) plus ammonium sulphate, simazine flowable or granular plus ammonium sulphate.

Insecticides: Dimethoate, Imidan[®], Le-Mat[®], Lorsban 500[®].

Additives: Ammonium Sulphate.

The addition of ammonium sulphate to Smart Loaded 540 Herbicide, when used to control annual weeds, MAY improve the performance of Smart Loaded 540 Herbicide under adverse environmental conditions such as cool cloudy weather. Ammonium sulphate may also improve the performance of tank mixtures of Smart Loaded 540

Herbicide and atrazine or simazine. If ammonium sulphate is required, add it first using 2 kg/100 L of spray volume. Use only crystalline ammonium sulphate, not the prilled or granulated forms, and wash it into the tank through a mesh screen. To test quality of crystalline forms, dissolve 2 tablespoons in 2 litres of water and swirl gently for 2 minutes. If undissolved particles remain it is advisable to pre-dissolve the ammonium sulphate in water prior to adding to spray tank through a screen. Ammonium sulfate may be corrosive to metal parts of the sprayer. Thoroughly flush tanks, pumps and nozzles with water after use.

Additives : Non Ionic Wetting Agents as specified in the Directions for Use

Tank Mixtures — How to Choose

Use the following list of suggestions to determine the appropriate tank mixtures. Adhere to manufacturers' instructions in all cases.

• To improve knockdown and give residual weed control

- Atrazine (flowable only) can be added. Use with ammonium sulphate (crystalline only) to overcome antagonism.

Do not spray by air. This mixture does not control barnyard grass.

- in fallow or in crop. Chlorsulfuron can be added.

- **prior to sowing lupins.** Simazine (flowable only) can be added. Use with ammonium sulphate (crystalline only) to overcome antagonism.
- To improve and accelerate knockdown symptoms prior to planting wheat or barley. Add 75 mL of Goal CT[®] per hectare.
- To improve control of certain broadleaved weeds. Add 2,4-D Ester. Observe any regional restrictions on use.
- To improve control of Sorrel, Subterranean Clover, Medics, and White Clover. Add Dicamba. Observe any regional restrictions on use.
- To improve control of Annual Ryegrass, Silver grass, and perennial grasses. Add 200 mL of wetting agent per 100 L of spray mix. Use only if recommended.
- To compensate for adverse growing conditions such as cool or cloudy weather. Control of annual weeds by Smart 540 Herbicide alone may possibly be improved by adding 2 kg of crystalline ammonium sulphate per 100 L of spray mix.

APPLICATION CHECKLIST

- Do not treat weeds under poor growing conditions due to moisture stress, waterlogging, severe frosting, insect damage etc. Reduced performance may also occur where weeds are covered with dust or silt.
- Do not add surfactants, adjuvants or other pesticides except as specifically directed on this label.
- Rainfall occurring within 1 hour of application which causes run-off may require re-treatment. Rainfastness is reduced if weeds are not actively growing, under stress or conditions of low light intensity/darkness. The addition of Wetter TX may improve rainfastness on winter annual weeds.
- A Withholding Period for grazing is not required. However, it is recommended that grazing of treated plants be delayed to ensure herbicide uptake. Certain plants such as Soursob, Variegated Thistle, Sorghum and Johnson grass, may be naturally toxic to stock when eaten in large quantities under certain conditions. Where plants are known to be toxic, grazing should be delayed until complete browning of treated plants has occurred.
- Apply treatments to weeds that have at least one true leaf (broadleaf weeds) or two leaves (grasses) to provide an adequate surface area for herbicide uptake.
- If heavy grazing has occurred, allow regrowth to 6-8 cm before spraying and use the higher rates recommended.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Avoid contact with foliage, green stems or fruit of crops, desirable plants and trees, as severe injury or destruction may result.

DO NOT apply under weather conditions, or from spraying equipment that may cause spray to drift onto nearby susceptible plants, crops, cropping lands or pastures.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Do not contaminate dams, rivers or streams with the product or used container. Do not apply to weeds growing in or over water. Do not spray across open bodies of water.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool well-ventilated area out of direct sunlight. Triple rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500mm 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 the relevant Local, State or Territory government regulations. Do not burn empty containers or product.

For refillable containers: Empty containers fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Will damage eyes and will irritate skin. Avoid contact with eyes and skin. When opening the container and preparing product and using prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves and goggles. If product in eyes, wash it out immediately with water. If product on skin, immediately wash area with soap and water. Wash hands after use. After each days use, wash gloves and goggles and contaminated clothing.

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 in the Material Safety Data Sheet, which can be obtained from the supplier.

CONDITION OF SALE

Crop Smart Pty Ltd shall not be liable for any loss, injury, damage or death whether consequential or otherwise whatsoever, or howsoever arising through negligence or otherwise in connection with the sale, supply, use or application of this product. The supply of this product is on the express conditions that the purchaser does not rely on Crop Smart Pty Ltd's skill or judgement in purchasing or using the same and every person dealing with this product does so at his own risk absolutely.