Resistant weeds warning

GROUP M HERBICIDE

Surefire WeedPro 540 Bio Herbicide is a member of the glycines group of herbicides. Surefire WeedPro 540 Bio Herbicide has the inhibitors of EPSP synthase mode of action. For weed resistance management Surefire WeedPro 540 Bio Herbicide is a Group M herbicide. Some naturally occurring weed biotypes resistant to Surefire WeedPro 540 Bio 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 Surefire WeedPro 540 Bio Herbicide or other Group M herbicides.

Since occurrence of resistant weeds is difficult to detect prior to use, PCT Holdings Pty Ltd accepts no liability for any losses that may result from the failure of Surefire WeedPro 540 Bio Herbicide to control resistant weed.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

This product is non-selective and may severely injure or kill desirable plants should the product contact the foliage, green stems or fruit of such plants.

DO NOT spray under meteorological conditions or under spraying conditions which could be expected to cause spray to drift onto nearby susceptible plants, adjacent crops, crop land or pastures.

DO NOT use prior to transplanting tomato seedlings.

PROTECTION OF LIVESTOCK

There is no withholding period for this product but removal of stock may be necessary to achieve optimum efficacy. It is recommended that stock be removed from treated areas for 1 day after treatment of annual weeds and for 7 days after treatment of perennial weeds. Certain plants (e.g. soursob, variegated thistle) may be naturally toxic to livestock. Where known toxic plants are present, do not allow livestock to graze until complete browning of treated plants has occurred.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate dams, rivers or streams with the undiluted product or used containers. DO NOT apply to weeds growing in or over water. DO NOT spray across open bodies of water. DO NOT allow spray to enter the water.

PRECAUTIONS

DO NOT store, mix or apply the product or spray solutions in unlined steel or galvanised containers as a highly flammable gas may form.

Use stainless steel, brass, copper, aluminium, plastic, or plastic lined fibreglass containers or spray tanks.

CAUTION

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

Suréfire

WEEDPRO 540

BIO HERBICIDE

ACTIVE CONSTITUENT: 540 g/L GLYPHOSATE

(present as the isopropylamine salt)

GROUP HERBICIDE

A non-selective water soluble herbicide for the control of a wide range of annual and perennial weeds in a variety of situations as per the Directions for Use Table.

IMPORTANT: READ THIS BOOKLET BEFORE USE



HOLDINGS PTY LTD

APVMA Approval No: 70106/62523

*Surefire is a registered trademark of PCT INTERNATIONAL PTY LTD
(PCT Holdings Pty Ltd ABN 11 099 023 962)

5/74 Murdoch Circuit, Acacia Ridge QLD 4110 • http://pct.au.com

CUSTOMER SERVICE FREECALL 1800 630 877 EMERGENCY RESPONSE (ALL HOURS) FREECALL 1800 630 877

Booklet 160mm x 120mm

STORAGE AND DISPOSAL

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

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

SAFFTY DIRECTIONS

Product will irritate the eyes and skin. Avoid contact with eyes and Skin. When preparing products for use wear elbow-length PVC gloves and face shield or goggles. When using controlled droplet applicator wear protective waterproof clothing and impervious footwear. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Telephone Australia 13 11 26.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet available from the supplier.

EXCLUSION OF LIABILITY

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, the distributor accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions. Surfactant – The addition of a surfactant may improve weed control where water rates are high or product rates are low. Suggested surfactant rates are 200 mL/100 L of 1000 g/L high quality non-ionic surfactant or 250-500 mL/100 L of 700 g/L high quality non-ionic surfactant. Do not add spraying oils, agricultural chemicals or any other material except as directed on the label.

Mixing – When the product is to be mixed with water it is important that clean water be used. Dirty water or hard water containing calcium salts may reduce the product's effectiveness. The following procedure for mixing should be followed:

- Ensure spray tank is clean and that previous chemicals used have been thoroughly washed from the tank
- · Half fill the tank with clean water and start the agitator.
- · Add the required amount of Surefire WeedPro 540 Bio Herbicide and the rest of the water.
- · Add surfactant last and agitate thoroughly.

Compatibility

The product may be mixed with a variety of products to enhance weed control, to broaden the spectrum of weeds controlled, and to add residual control. Refer to the "Directions for Use" Section for detailed information on the tank mix situations.

<u>Additives</u>: Crystalline ammonium sulphate assists in minimising antagonism when mixed with flowable triazine herbicides. The only form of ammonium sulphate to be used is the crystalline form (not prilled or granule forms). Test the quality by dissolving 2 tablespoons of crystalline ammonium sulphate in 2 litres of water. Swirl gently for 2 minutes. Should undissolved particles still remain at the end of that time, predissolve then prior to adding Surefire WeedPro 540 Bio Herbicide to spray tank. Ensure solution is poured through a screen.

<u>Herbicides</u>: Atrazine – flowable or granular (see additives above – do not apply this tank mix for control of barnyard grass or liverseed grass), simazine (flowable or granular), diuron (flowable or granular) dicamba, 2,4-D ester, 2,4-D amine 625, tribenuron-methyl, triclopyr, chlorsulfuron, metsulfuron-methyl, oxyfluorfen, pendimethalin, triasulfuron, MCPA LVE, trifluralin.

Oxyfluorfen (Goal[®]). The addition of Goal at 75 mL/ha to recommended rates of this product prior to planting wheat or barley will improve knockdown and increase the speed at which treated weeds develop visible symptoms of phytotoxicity.

Insecticides: Chlorpyrifos, dimethoate, fenitrothion, Le-Mat®.

For tank mixing the following procedure should be undertaken:

- Half fill tank and start agitator.
- 2. Add ammonium sulphate, pre-dissolved in water, and if required through mesh screen.
- 3. Add companion product.
- 4. Add Surefire WeedPro 540 Bio Herbicide and rest of the water.
- 5. Add surfactant and maintain agitation while spraying

Equipment Maintenance and Usage

Surefire WeedPro 540 Bio Herbicide should ONLY be stored, mixed or applied in plastic or plastic lined stainless steel, aluminium, copper, brass or fibreglass containers. The product and spray solution react with galvanized steel and unlined steel tanks and containers to form hydrogen gas which may form a highly combustible gas mixture. This gas could cause an explosion if ignited by an open flame. All application equipment including tanks, nozzles, hoses, aircraft and aircraft landing gear, should be thoroughly washed after use to prevent corrosion.

GENERAL INSTRUCTIONS

Mode of Action

Surefire WeedPro 540 Bio Herbicide is a water soluble liquid herbicide. The product is non-selective and will control a wide range of emerged annual and perennial weeds. It provides no residual activity and is inactivated once it comes into contact with the soil. The product is absorbed by plant leaves and green stems and is then translocated through the plant to the root system. The product inhibits a plant enzyme causing a breakdown in the metabolic pathway leading to death of the plant.

Visual effects of product efficacy are gradual willing, yellowing leading to complete plant browning. For annual weeds effects are usually apparent in 3-7 days and for perennial weeds up to 14-21 days. The time taken for these effects to appear will vary depending on the speed of translocation which will be dependent on climatic conditions such as temperature, moisture conditions etc. Best results are obtained if plants are sprayed when they are actively growing and not under any stress from such factors as disease, water logging, insect damage, drought stress etc. Plants which are covered in dust or which are wet with dew should not be treated.

Rainfastness — To ensure that the product is adequately absorbed by weeds it is recommended that spraying be delayed if rainfall is expected. Rain within 1 hour of application which causes run-off may require retreatment. Rainfastness is reduced if weeds are not actively growing, under stress or are under conditions of low light intensity/darkness. The addition of Wetter TX may improve rainfastness on winter annual weeds.

Crop Establishment – Where the product is used to control weeds prior to the establishment of a new crop or pasture it is important that the crop or pasture not be sown until a suitable seed bed is present. Where a light cover of seedling annual weeds has been sprayed, if may be possible to sow in one day. Where a large amount of dead weed matter or trash is present the seed bed needs to be adequately prepared before crop or pasture sowind.

Mixing and Application

Surefire WeedPro 540 Bio Herbicide may be applied by boom spray, aircraft, knapsack, handgun or wiper equipment.

Boom Application – Spray volumes of 25-100 L water/ha are recommended with a fan nozzle at pressures of 240-280 kPa. Boom height must be set to ensure double overlap of spray patterns at the top of the weed canopy. Under situations where herbicide drift is a risk, or in areas where there are sensitive crops, Surefire WeedPro 540 Bio Herbicide should be applied using a medium to coarse spray as defined by Standard ASAE S572.

Wiper Equipment – (e.g. rope wick, canvas, carpet or felt applicators) may be used to apply the product in the situations as per the Directions for Use Table. Weeds should be at least 15cm above the crop and the wiper equipment should be operated at least 10cm above the crop. Best results are obtained with lower speeds of application (do not exceed 8 kilometres per hour) and where two applications are made in opposite directions, i.e. double pass. Where herbicide does not contact foliage (due to different levels of foliage) results may not be satisfactory and re-treatment may be required. Do not store a mixed solution for more than 2 days.

Rate: 660 mL of product to 2 litres of water.

Aerial Application – Apply a minimum spray volume of 20 L/ha for Micronair and boom equipment. Droplet size should be 250-350 micron and the swath width 15-17 metres. Aerial application is only recommended in pasture or fallow situations before establishment of a new crop or pasture or in pre-harvest sorghum. On sloping ground, the spraying height may vary, so it is recommended that the spray volume be increased to 30-80 L/ha with a droplet size of at least 300 micron.

Since the product is non-selective it is important to avoid spraying in conditions likely to cause drift, e.g. wind over 8 km/h, temperature inversion, still air and hot dry days. Under situations where herbicide drift is a risk, or in areas where there are sensitive crops, Surefire WeedPro 540 Bio Herbicide should be applied using a medium to coarse spray as defined by Standard ASAE S572.

DO NOT apply by aircraft in intensive horticultural areas.

Use recommended rates specified in this label up to a maximum limit of 2.8 L/ha.

Application in hot conditions – When the temperature reaches 25°C increase the water volume to at least 30 I/ha and droplet size to at least 300 micron VMD to compensate for additional evaporation of sprayed droplets. DO NOT apply by aircraft in temperatures above 30°C.

DIRECTIONS FOR USE

Restraints

DO NOT spray if rainfall is expected. Heavy rainfall within 1 hour of treatment which causes runoff may wash the product from the leaf surface and retreatment may be necessary.

DO NOT disturb treated weeds by grazing, cultivation, sowing etc after treatment for 1 day for annual weeds and 7 for perennial weeds to ensure complete uptake of herbicide.

DO NOT treat weeds under any stress from frost, cold, disease, water logging, lack of moisture or insect damage. Plants must be actively growing to ensure optimum uptake of the product.

PRE-SOWING OR FALLOW

CROP/SITUATION	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Southern Australia Before sowing a crop or pasture For weed control prior to sowing a crop or pasture with full soil disturbance by cultivation or sowing with full soil disturbance by cultivation or sowing with a tined implement.	Barley grass, brome grass, volunteer cereals, wild cats Annual phalaris, annual ryegrass, silver grass, silver gra	NSW, ACT, Vic. SA, WA only	330-660 mUha pre-tillering 660-850 mUha post tillering 660-850 mUha pre-tillering 660-850 mUha pre-tillering 850-950 mUha liess than 8 cm diameter 660-850 mUha less than 12 cm diameter 660-850 mUha less than 12 cm diameter 450-950 mUha less than 12 cm diameter 850-950 mUha less than 12 cm diameter 850-950 mUha less than 12 cm diameter 850-950 mUha 950 mUha 950 mUha	Use the higher rate when applying late in the season. Use the lower rate on young weeds and the higher rate on mature weeds in the season. Use the lower rate on young weeds and the higher rate on mature weeds in the season of the season. If weeds the budding or stem elongation. If weeds have been grazed heavily renove stock prior to spraying to ensure regrowth to 6-8 cm before treatment and use the higher rate. To allow for herbicide uptake DO NOT begin sowing for 1 day after application for annual weeds and 7-10 days for perennial weeds. If cultivation or sowing does not occur within 21 days retreatment may be necessary. Annual ryegrass, silver grass and perennial grasses – it is recommended to use a water volume of 70 L/ha or more with low volume nozzles to improve control. Addition of a high quality non-ionic surfactant at the rate recommended on the label for that product may improve control. Crop establishment: Sowing should not proceed until conditions allow for the formation of a satisfactory seedbed. See "Crop Establishment' section of the Genome Table See Tompored Control of clover additional section of the formation of a satisfactory seedbed. See "Crop Establishment' section of the Genome Table See Tompore Seed of Crop Establishment's section of the Genome Seedon See "Crop Perennial weeds" for perennial phalaris, soursos, skeleton weed and sorrel this product will provide knockdown, season-long suppression and reduction in treated plant numbers.
	All weeds listed above (for other States)	Tas only	950 mL-1.9 L/ha	TASMANIA ONLY: Use 950 mL/ne on annual weeds and 19 Line on perennial weeds. The product may also be tank mixed with dicamba (200 gft.) to improve control of sornel, dock white clover. Observe dicamba label directions and plant-back periods. Addition of a high quality non-ionic surfactant at the rate recommended on the label for that product may improve control and increases.

wild mustard.

wild radish

wild turnip Hoary cress, soursob

PRE-SOWING OR FALLOW (Southern Australia continued) STATE RATE CRITICAL COMMENTS SITUATION CONTROLLED Southern Barley grass, NSW. Use the higher rate when applying in cold/overcast conditions, or Australia ACT. 950 volunteer cereals. when applying late in the season. Use the lower rate on young Before wild oats Vic. weeds and the higher rate on mature weeds, i.e. fully tillered mL/ha sowing a Brome grass, SA 850 grasses, or broadleaf weeds at budding or stem elongation. crop or capeweed. WA mL/ha If weeds have been grazed heavily remove stock prior to spraying to ensure regrowth to 6-8 cm before treatment and use the higher pasture variegated thistle. only -1.35For weed winter grass I /ha control prior Annual ryegrass, 950 Annual ryegrass, silver grass and perennial grasses - it is recommended to use a water volume of 70 L/ha or more with low to sowing a Paterson's curse ml volume nozzles to improve control. Addition of a high quality noncrop or (Salvation Jane). 1.25 pasture with ionic surfactant at the rate recommended on the label for that saffron thistle. L/ha minimal or scotch thistle product may improve control. Do not sow if heavy trash is present. no soil silver grass. Seeding may proceed 1 day after spraying annual weeds and 7 disturbance days after spraying perennial weeds. spear thistle. Aerial application: May be applied by air provided a good seedbed wild mustard. has been established. Always use the higher rates. wild turnip Tank mixtures: For improved control of dock, sorrel and sub-Erodium. clover add dicamba. Read and follow all label directions for the plantain. perennial phalaris. I /ha tank mix product. Addition of ammonium sulphate 2 kg/100 L may improve control when treating under adverse environmental sorrel, sub-clover conditions Pasture or Crop Establishment: Dock. Do NOT sow into excessive trash. Trash may be removed by Flat weed L/ha grazing after treatment. Grazing may commence 1 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 no sooner than 1 day after treatment of annual weeds and 7 days for perennial weeds. See also 'Crop Establishment' section of the General Instructions for further directions. Aerial (or surface) Seeding: Delay seeding until trash is completely removed by grazing and/or plant decay. When establishing pasture, ensure application of fertilizer and insecticides and that follow-up management is undertaken as All weeds listed TASMANIA ONLY: Use 950 mL/ha on annual weeds and 1.9 above only L/ha on perennial weeds. The product may also be tank mixed 1.9 with dicamba to improve control of sorrel, dock and white clover. L/ha Observe dicamba label directions and plant-back periods. The addition of a high quality non-ionic surfactant at the rate recommended on the label for that product may improve control. Southern Barley grass, NSW, 660-Use the lower rate on young weeds or where cultivation is to take Australia volunteer cereals. ACT. 950 place within 21 days. Use the higher rate where broadleaf weeds Vic. For weed wild oats mL/ha reach stem elongation/budding or where grasses are fully tillered. control Annual ryegrass. SA If weeds have been grazed heavily remove stock prior to spraying WA before a to ensure regrowth to 6-8 cm before treatment and use the higher brome grass. mLonly rate fallow capeweed, 1.25 Paterson's curse L/ha (Salvation Jane) Soursob - Treat at tuber exhaustion (rosette). Hoary cress - Treat from late rosette to early flowering. Annual ryegrass, silver grass and perennial grasses - it is saffron thistle. scotch thistle recommended to use water volumes of 70 I /ha or more with low silver grass, volume nozzles to improve control. Addition of a high quality nonionic surfactant at the rate recommended on the label for that spear thistle.

DIRECTIONS FOR USE (continued)

		SPECIFIED

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Agricultural areas	See Weeds Controlled Tables for Annual and Perennial Weeds and	See Weeds Controlled tables	For the control of weeds listed in "Weeds Controlled" prior to sowing of any crop.
Domestic areas, Commercial and Industrial areas, Public Service areas, Rights of Way	Brush and Woody Weeds	7 mL per litre of water	Ensure weeds are actively growing at time of application. Complete and uniform coverage is necessary to ensure the ber results. Symptoms may take 3-21 days to appear. NO residual control is provided.
Forestry situations		See Weeds Controlled tables	The product may be used: 1. In site preparation before planting. 2. Before establishment of nurseries. 3. Amongst establishment dress by using selective wiper equipmen directed or shielded spray. The product must NOT contar foliage or green bark of desirable trees. The wiper should no contact any part off the tree.
HORTICULTURAL CROPS Avocado, bananas, blueberries, citrus fruits, custard apples, dubosiai, figs (debosiai, fi		See Weeds Controlled Tables	The product can be used as a shielded or directed spray, or usin Wiper equipment. Do NOT apply near trees or vines less than 3 years old unless the are adequately protected from spray and spray drift. Do NOT allow spray or spray of the contact back, leaves, wounds or any othe plants parts as severe injury may occur. Tae – Apply a maximum of 2.65 Lina by a shielded spray or directed off centre nozzle or 330 mL/100 L by directed handgun of knapsack to avoid injury to crop.
Pasture		See Weeds Controlled Tables	The product may be used by the following methods: *Spot application — To remove weeds by spot application within pasture. This product is non-selective and may damage or kill any plant in the sprayed area. To prevent seeding re-establishmen subtrained importment and/or re-trained may be used to suppress or *Boom application — This product may be used to suppress or kesting pasture prior to reseeding or establishment of other crops. *Selective application — see Wiper equipment under Gener Instructions.
Peanuts, cotton, soybeans & sugarcane (USING SELECTIVE APPLICATION EQUIPMENT ONLY) QId, NSW ONLY		See Weeds Controlled Tables	WIPER EQUIPMENT Apply to the weeds growing between the rows or to weeds growing at least 15 cm above the crop. DO NOT allow the herbicide to contact the crop or to drip from the applicator as serious crop injuingly occur. SHIELDED SPRAYERS (Cotton only) Apply to the weeds growing between the rows using a shielde sprayer. DO NOT apply unless the crop is at least 20 cm high. D not allow herbicide or drift to contact crop.

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

WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED.

ml /ha

product may improve control.

WOODY WEEDS AND BRUSH

WEEDS CONTROLLED	STATE	HANDGUN VOL/100 L	KNAPSACK mL/15 L	CRITICAL COMMENTS
Bitou bush/ boneseed	Qld, NSW, ACT, Vic, Tas only	330 mL or 660 mL	50 mL or 100 mL	Apply to actively growing plants. Do not treat plants which are stressed, particularly drought stressed. Spray to well foliage. Best results are achieved when treated during the winter at peak flowering time. Use the higher rate on larger bushes. Follow-up treatment may be required to prevent the establishment of germinating weeds.
Blackberry	All States	660 mL or 850 mL	100mL or 130mL	Apply from January to May (flowering to leaf fall). Spray plants which are not under stress to thoroughly had foliage. Use the higher rate for dense, old stands over 2m high. Further treatment may be needed to control seedlings and regrowth. Symptoms may be slow to appear and may not be apparent until next season. Tas, ONLY — On ot spray bushes bearing mature fruit.
Boxthorn	All States	475 mL or 660 mL	70 mL or 100 mL	Spray to wet all foliage. Use the lower rate for young bushes and the higher rate for bigger mature bushes. Do not spray if conditions are hot and dry. Regrowth and seedling germination may have to be refreated.
Crofton weed	Qld, NSW, ACT only	330 mL	50 mL	Apply to plants with full foliage which are actively growing. Spray to wet all foliage. Seedling germination may have to be retreated.
Groundsel bush	Qld, NSW, ACT only	475 mL or 660 mL	70-100 mL	Apply to actively growing plants using the higher rate for plants over 2m tall. Do not spray during summer drought stress conditions or in winter. Spray to wet all foliage. Seedling germination may have to be retreated.
Hawthorn	NSW, ACT, Vic, Tas, SA, WA only	660-850 mL	100-130 mL	Spray from flowering to leaf fall when plants are actively growing. Use the higher rate for plants over 2m tall. Spray to thoroughly wet all foliage. Seedling regrowth may have to be retreated.
Lantana	Qld, NSW only	660 mL	100 mL	Apply to plants with full foliage, which are actively growing. Spray to thoroughly wet all foliage and individual plants. Seedling regrowth may have to be retreated.
Mistflower	Qld, NSW, ACT only	330 mL	50 mL	Apply to plants with full foliage, which are actively growing. Spray to thoroughly wet all foliage. Seedling regrowth may have to be retreated.
Sifton bush/ Chinese scrub	Qid, NSW, ACT only	660 or 850 mL	100mL or 130mL	Apply to actively growing plants ensuring complete coverage. Seedling regrowth may have to be retreated. For high volume application, use the higher rate when bushes are over 1m. For wiper application a double pass application is required. Best results are achieved if bushes are less than 1m tall and are green at time of application.
Sweet briar	NSW, ACT, Vic, Tas, SA, WA only	960 mL or 1.25 L	150mL or 200mL	Apply from late flowering to leaf fall to actively growing plants. Spray to thoroughly wet all foliage. Use the higher rate for bushes over 1.5m tall. Seedling regrowth may have to be retreated.

DIRECTIONS FOR USE (Continued)

CROP/SITUATION	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Northern Australia For weed control prior to sowing a summer or winter crop or in a fallow	Annual phalaris, barley grass, volunteer cereals, wild oats Barnyard grass, liverseed grass, lovegrass/stink grass, sweet summer grass, volunteer	Qld, NSW only	330-660 mL/ha 660 mL-1.35 L/ha	Use the lower rate on young weeds of where cultivation is to take place within 2 days. Use the higher rate where broadleaf weed reach stem elongation/budding or when grasses are fully tillered. At more advance stages certain broadleaf weed may require the higher rate range or the addition of 2.4 D. In winter (cold) conditions, symptoms of deadnettle may be slow to develop.
	sorghum Australian bluebell (Old only) cudweed, furnitory, Mexican poppy, miniweed, New Zealand spinach, Noogoora burr, Saffron thistle, spear thistle, spear thistle, spurge, volunteer sunflower, volunteer sunflower, yellowine/caltrop, wireveed Boggabri weed, caltrop, lindian hedge mustard, miniweed, summer grass Annual ground cherry, summer grass		290-660 mL/ha up to 3 cm in height or diameter or up to 5 true leaves GR 660-950 mL/ha greater than 3 cm in height or diameter or 5 true leaves 660-950 mL/ha prior to stem elongation/ budding OR 950 mL-1.25 L/ha after stem	If weeds have been grazed heavily removs stock prior to spraying to ensure regrowth to 6-8 cm before treatment and use the higher rate. Liverseed grass and barmyard grass may be very sensitive to moisture stress. Densistands may require re-treatment. For aerial application see Gener Instructions. Do not apply by air intemperature is over 30°C. * Large plants (>5 cm) of Noogoora burn variegated thistle and volunteer sunflower may require up to 1.25 L/ha to achieve control. Crop Establishment: Sowing should not proceed until conditions allow for formation of a satisfactory seedbed. See Crop Establishment section of the General Instructions for directions for directions. Sowithsite, previously grazed plants may be difficult to control without allowing full recovery.

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PASTURE RENOVATION AND TOPPING

CROP/SITUATION	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Pasture with poa tussock present as a weed For pasture renovation	Annual weeds (see Annual Weeds table) and poa tussock	Qld, NSW, ACT, Vic Tas only	2.0-2.65 L/ha	Before spraying graze heavily remove stock 14 days or more before treatment apply after autumn break when plants are actively growing but before frosts begin (March-May) Increasing to the higher rate may give more effective reductions. Sowing of new pasture may begin 14 days after treatment. It is essential that correct follow-up pasture establishment and management occurs after treatment. Spot treatment will limit re-infestation. May be aerially apolied.
Pasture with bent grass present as a weed For control/ suppression of bent grass before sowing a crop or pasture	Annual weeds (see Annual Weeds table) and bent grass	Vic, Tas only	1.7 L/ha	Apply late spring when seed heads have developed but before the onset of summer moisture stress. Remove stock prior to spraying to achieve good foliage cover. Ensure plants are actively growing, 10-21 days after spraying fully disturb soil with a timed implement and then sow summer crop and/or re-seeded pasture, or crop the following autumn.
Pasture topping for the reduction of seed set of annual grasses, capeweed and calomba daisy	Annual ryegrass, calomba daisy Barley grass, Brome grass, capeweed, silver grass	NSW ACT, Vic Tas, SA WA only	310 mL/ha 200-310 mL/ha	Use the higher rate for heavy infestation or where annual ryegrass ipresent. Apply before haying off. Annual ryegrass and capeweed – apply at flowering. Other weeds – apply at head to milky dough stage. Stock should be removed before spraying to allow regrowth. Pasture legumes may be affected. Do not apply to medic/clover crops to be used for hay or seed. Apply a mixture of 5D Lha water. Above this water volume ad high quality non-ionic surfactant at the rate recommended on the label for that product.
Pasture manipulation for the control/ suppression of certain grasses before sowing soybeans, forage crops or leucaena	Carpet grass, Kikuyu Carpet grass, paspalum Kikuyu Black spear grass, wire grasses, love grasses, red natal grass, barbed wire grass	NSW, ACT, Vic, WA only Qld only	950 mL-4.0 L/ha 950 mL-4.0 L/ha 420 mL-4.0 L/ha 2.0 L/ha	Apply the lower rate for suppression only. The higher rate will provide confirm to the provide confirm to the provide confirm to the provide confirm to the provide the provided that the rear of a single row planter giving a 1m swath.

DIRECTIONS FOR USE (continued)

PERENNIAL WEEDS (continued)

WEEDS CONTROLLED	STATE	BOOM L/ha	HANDGUN VOL/100 L	KNAPSACK mL/15 L	CRITICAL COMMENTS
Paspalum	All States	4.0 L	660 mL	100 mL	Apply to actively growing plants at early head stage.
Phalaris	NSW, ACT, Vic, SA only	2.0 L or 4.0 L	330 mL or 660 mL	50 mL or 100 mL	Apply in winter-spring to actively growing plants. Us- lower rate where only knockdown is required such a prior to burning for a fire break. Burning should no take place for 2-3 weeks after spraying. The higher rate should be used for longer terr control.
Plantains	All States	2.0 L	475 mL	70 mL	Apply to actively growing plants at the early head stage. Symptoms may be slow to appear.
Prairie grass, Queensland bluegrass, redleg grass, Rhodes grass	All States	4.0 L	660 mL	100 mL	Apply to actively growing plants at the early head stage.
Rope twitch	Vic, Tas only	4.0 L	660 mL	100 mL	Apply in late summer-autumn to actively growing plants with foliage at least 20 cm high. To ensur maximum shoot emergence the area should NOT be cultivated in the period from the preceding winter unti the time of spraying.
Sorrel	All States	4.0 L	660 mL	100 mL	Apply to actively growing plants when the majority or plants are at the early bud stage.
Soursob	NSW, ACT, Vic, Tas, SA, WA only	950 mL	330 mL	50 mL	Apply to actively growing plants late July to early September prior to plant senescence (yellowing) Ensure plants are not stressed at time of application If plants have been grazed or frosted allow regrowth before treatment.
St John's Wort	All States	2.0 L	330 mL	50 mL	Apply to actively growing plants at flowering to pos flowering, procumbent stem stage (about November May). Pasture improvement or re-treatment may be necessary to prevent seedling re-establishment.
Yorkshire fog	All States	2.0 L	475 mL	70 mL	Apply to actively growing plants at the early head stage.

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PERENNIAL WEEDS

WEEDS CONTROLLED	STATE	BOOM L/ha	HANDGUN VOL/100 L	KNAPSACK mL/15 L	CRITICAL COMMENTS
African lovegrass	NSW, ACT, Vic, WA only	4.0 L	660 mL	100 mL	Apply to actively growing plants. To restrict seedling re-establishment pasture improvement i recommended.
Artichoke thistle	Vic, SA only	2.0 L	330 mL	50 mL	Apply when plants are at the rosette to early head stage.
Bamboo	All States	-	600 mL	100 mL	Apply to actively growing foliage and/or regrowth, which is between 1 and 2 m tall. Cut stump – dilute the product 1:6, i.e. 1 part Surefin WeedPro 540 Bio Herbicide to 6 parts water, cut stems back to 20 cm high, pour mixture down hollow stem or paint the cut.
Bent grass	Vic, Tas only	1.7 L	330 mL	50 mL	Apply to plants which have some seed-head developmen late in the spring. Plants must be actively growing. It is necessary to follow-up spraying with full soil disturbance within 21 days and then plant to a summer crop and/or re seeded pasture or crop in autumn.
Blady grass	Qld, NSW, ACT only	6.0 L	850 mL	130 mL	Apply to actively growing plants when most plants have reached the head stage.
Bracken	All States	_	950 mL	150 mL	For best control wiper application is recommended. Bracken should be slashed in the previous winterfspring is that application is made to new growth. Apply to activel growing fully unfuried fronds in autumn (March-May) befor onset of frosts. Symptoms may be very slow to appear. Follow-up treatment is recommended as control will NOT but achieved after one treatment.
Californian thistle	Vic, Tas only	4.0 L	330 mL	50 mL	Apply to actively growing plants at the flowering stage. To ensure maximum shoot emergence the area should not be cultivated prior to spraying. Re-treatment and/or pastur improvement may be necessary to restrict seedling re establishment.
Carpet grass	All States	2.0 L	330 mL	50 mL	Apply to actively growing plants at early head stage.
Cocksfoot	All States	2.0 L	475 mL	70 mL	Apply to actively growing plants at early head stage.
Couch	All States	6.0 L	850 mL	130 mL	Apply to actively growing plants when most plants are at the early head stage. For best results in WA and SA apply in October-November.
Flatweed/Cat's ear	All States	2.0 L	475 mL	70 mL	Apply at early flower stage to fully developed rosettes.
Guinea grass	All States	6.0 L	850 mL	130 mL	Apply to actively growing plants at early head stage. May be applied by wiper equipment.
Hoary cress	NSW, ACT, Vic, Tas only	950mL	330 mL	50 mL	Apply late July to early September to actively growing plants at the late rosette to flowering stage. Ensure plants are no stressed at time of spraying. Where stems are long enough wiper equipment may be used. Tasmania: Add a high quality non-ionic surfactant at the rate recommended on the label for that product.
Johnson grass, kangaroo grass, kikuyu	All States	4.0 L	660 mL	100 mL	Apply to actively growing plants at early head stage. May be applied by wiper equipment to Johnson grass.
Nutgrass	All States	4.0 L	660 mL	100 mL	Non cultivated situation: Apply to actively growing plants in February-April.
		2.0 L + 2.0 L	475 mL + 475 mL	70 mL + 70 mL	Cultivated situations: Make first application when at leas 20% of plants have reached early head stage (about February). Make the second application when most plant have re-emerged (about 6-8 weeks after first application) Follow up treatments may be necessary as further plant emerge.
Pampas grass	All States	-	660 mL Or 850 mL	100 mL Or 130 mL	Apply in spring, summer, or autumn to actively growing plants. Ensure complete coverage of the foliage. Bes results are obtained of plants are sprayed at flowering. Usi the lower rate for plants under 1m tall and the higher rate fo larger plants. Plants may be cut prior to application bu regrowth must be at least 1m prior to spraying.
Paragrass	All States	6.0 L	850 mL	130 mL	Apply to actively growing plants at early head stage.

DIRECTIONS FOR USE (continued)

CLICAD CAME (DATOON CONTROL) FOR OLD AND NEW ONLY

SUGAR CANE (RATUON CONTROL) FOR QLD AND NSW ONLY								
CROP/SITUATION	WEEDS	RATE	CRITICAL COMMENTS					
Sugar cane	Q63, Q87, Q90, Q102, Q117, Q120,	2.0-2.65 L/ha	Apply when ratoons are actively					
Ratoon control	Q129, Q130, H56-752, Pindar, Triton		growing and are 60-100 cm tall. DO					
	Q86, Q96, Q113	2.65-3.3 L/ha	NOT apply if plants are under stress					
	Cassius, Q115, Q122, Q94	3.3-4.0 L/ha	from water logging or low moisture.					
	NCO310, Q107	4.0-6.0 L/ha	Use the lower rate for suppression or where control by cultivation is planned. Use the higher rate for control. Boom height must allow for correct overlap of the spray pattern at the top of the crop canopy.					

RICE DIRECT DRILLING FOR NSW ONLY

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CROP/SITUATION	WEEDS	RATE	CRITICAL COMMENTS
Rice	Annual ryegrass,	660-850 mL/ha	If plants are drought stressed a pre-watering must
Application prior to	annual phalaris,		be applied. If the site has been grazed allow plants
direct drilling	barley grass,		to regrow to 6-8 cm before treatment.
	burr medic,		For the control of annual ryegrass use the higher
	subterranean clover,		rate and add a high quality non-ionic surfactant at
	winter grass		the rate recommended on the label for that
			product.
			Crop sowing: - Sow 1-14 days after treatment.
			Residual control will only be achieved by adding
			another suitable herbicide.

SORGHUM CONTROL				
CROP/SITUATION	WEEDS	STATE	RATE	CRITICAL COMMENTS
Sorghum control (desiccation) before harvest	Grain sorghum	Old, NSW only	950 mL-1.25 L/ha	DO NOT apply to vanelies intended for seed production or varieties prone to lodging. DO NOT apply to crop under stress from factors such as water logging, frost, disease, low moisture, etc. Apply when grain moisture is less than 25%. The product can be applied when some browning has occurred. Use the lower rate for control of the crop, late tillers and ration regrowth. Use the higher rate for better suppression of ration regrowth. Treatment may increase potential for crop lodging especially if the crop has been stressed by low moisture. In this situation harvest as soon as possible after sufficient dry brown to prevent further lodging. CAUTION: Sorghum may be naturally toxic to livestock.
Sorghum control after harvest	Sorghum stubble/ regrowth (grain sorghum)	Qld, NSW only	660-950 mL/ma for new regrowth from slashed stubble 115-1.5 L/ha for standing green stubble 750 mL-1.15 L/ha for fresh spring regrowth	DO NOT apply if plants are stressed from such factors as water logging, frost, disease, low moisture, etc. For slashed stubble and spring regrowth apply when regrowth is at least 20 cm high. Standing stubble – apply only if sufficient green leaf is present. Allow regrowth of at least 20 cm fignating stubble – apply only if sufficient green leaf is present. Allow regrowth of a least 20 cm if grazing has occurred. Use the lower rate for knockdown and regrowth suppression where cultivation is to follow. Use the higher rate for better control of regrowth. It is important to note that variable results can occur if the crop has been under stress or grown under marginal conditions. The varieties Ruby, Trump, Nugget 2, Godfush 2 and Prize are particularly susceptible if growing conditions are not ideal. CAUTION: Sorghum may be naturally toxic lolivestock.

DIRECTIONS FOR USE (continued)

ANNUAL WEEDS - FOR ALL STATES

ANNUAL WEEDS - FUR ALL STATES		
WEED CONTROL	RATE	CRITICAL COMMENTS
Amaranth, annual regrass, barley grass, barmyard grass, tome grass, scolarpo, canny grass, capeweed, chickweed, cobbler's peg, fumilory, ground cherry, lesser swinecress, liverseed grass, mintweed, paradox grass, Patreson's curse (Salvation Jane), pigweed, potato weed, saffron thistle, silver grass, sowthistle, spear thistle, spiny burr grass, spurge, subternanean clover, variegated thistle, volunteer cereals (barley, wheat, cats, sorghum), wild mustard, wild cats, wild turnip, winter grass	BOOM 1.25-2.0 L/ha HANDGUN 330-460 mL/100 L KNAPSACK 50-70 mL per 15 L	Apply only to plants which are actively growing and not suffering stress. Use the lower rate for weeds up to 15 cm and the higher rate for weeds over 15 cm. The effects of the product may take 3-7 days to appear under normal conditions and up to 20-30 days in cool conditions. No residual control will be provided by this product. Germinations after initial treatment may have to be resprayed. For residual control the product should be talk-mixed with a suitable residual herbicide.