# Reign

FARMALINX

## **DIRECTIONS FOR USE**

#### RESTRAINTS

DO NOT apply with aircraft or through any type of irrigation equipment

### DO NOT apply when the turf or weeds are not actively growing.

DO NOT apply to turf under stress.

DO NOT apply to golf course putting greens. DO NOT apply to Bent Grass, Buffalo, Centipede Grass, Fescue, Kikuyu, Paspalum spp., Ryegrass or other turf species not listed in the table below (unless under weeds controlled).

DO NOT apply within 10 m upwind of Bent Grass greens.

DO NOT apply to newly seeded, sodded or sprigged turf. Delay application until turf is at 100% cover and root system is developed beyond a 5 cm depth. For PROFESSIONAL use only.

#### SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift.

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone table/s below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise. DO NOT apply by a boom sprayer unless the following requirements are met:

spray droplets not smaller than a COARSE spray droplet size category

minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for boom sprayers') are observed.

#### Buffer zones for boom sprayers

Application Rate	Boom height above the target canopy	Mandatory downwind buffer zones		
		Natural aquatic areas	Vegetation areas	
Up to maximum label rate	0.5 m or lower	20 m	60 m	

SITUATION	WEEDS	RATE	CRITICAL COMMENTS
Established Turf as named: Common Couch ( <i>Cynodon dactylon</i> ), Durban Grass ( <i>Dactyloctenium austral</i> ), Hybrid Couch ( <i>Cynodon dactylon x Cynodon transvaalensis</i> ), Qld Blue Couch ( <i>Digitaria didactyla</i> ), <i>Zoysia (Zoysia japonica</i> )	Burr Medic ( <i>Medicargo polymorpha</i> )	115 g/ha	The addition of a quality non-ionic surfactant at a rate of 0.25% v/v (1000 g ai/L products), 0.42% v/v (600 g ai/L products) or
	Mullumbimby Couch ( <i>Cyperus brevifolius</i> ), Nutgrass ( <i>Cyperus rotundus</i> )	150 g/ha	Hasten at 1%v/v is strongly recommended. Refer also to Mixing section for detailed
	Bindii ( <i>Soliva sessilis</i> ), Ryegrass ( <i>Lolium perenne</i> ), Wintergrass ( <i>Poa annua</i> )	225 g/ha	information. Ensure product placement as uniformly as possible onto leaves and into crowns. Ideal application volume should be 400 to 800 L/ha. Use higher volumes to ensure sufficient coverage in higher cut turf (>15 mm)
	Catsear ( <i>Hypochoeris radicata</i> ), Chickweed ( <i>Stellaria media</i> ), Clover ( <i>Trifolium repens</i> ), Cotula ( <i>Cotula australis</i> ), Creeping Oxalis ( <i>Oxalis orniculate</i> ), Curled Dock ( <i>Rumex crispus</i> ), Milk Thistle ( <i>Sonchus oleraceus</i> ) Kikuyu ( <i>Pennisetum clandestinum</i> ) <b>suppression only</b>	300 g/ha	in semi-roughs, roughs, parks, etc. A repeat application may be needed in 4 to 6 weeks. Allow at least 6 weeks between last application and overseeding with cool season grasses for winter cover. Transient discolouration may occur when applied to Qld Blue Couch and Zoysia. For Kikuyu suppression, make 2 applications 21 to 28 days apart. Best results are gained from autumn applications. Refer to Application section for more detailed information.

#### Bahia Grass (Paspalum notatum) Suppression and Seedhead Control CRITICAL COMMENTS SITUATION WEEDS RATE Per 100 m<sup>2</sup> Per ha

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Common Couch, Durban Grass, Hybrid Couch, Old Blue Couch, Zoysia only in golf course long roughs, lawns, median strips, ovals, parks, roadsides, general grassed areas	Bahia Grass ( <i>Paspalum notatum</i> ) suppression and seedhead control	75 g plus 2 to 4 L/ha of a 120 g/L trinexapac-ethyl product or 1 to 2 L of a 250 g/L trinexapac-ethyl product plus a quality non-ionic surfactant at 0.25% v/v (1000 g ai/L products) or 0.42% v/v (600 g ai/L products)	0.75 g plus 20 to 40 mL/100 m <sup>2</sup> of a 120 g/L trinexapac-ethyl product or 10 to 20 mL/100 m <sup>2</sup> of a 250 g/L trinexapac-ethyl product plus a quality non-ionic surfactant at 0.25% v/v (1000 g ai/L products) or 0.42% v/v (600 g ai/L products)	Tank mix with 2 to 4 L/ha (20 to 40 mL/100 m <sup>2</sup> ) of a 120 g/L trinexapac-ethyl product or 1 to 2 L/ ha (10 to 20 mL/100 m <sup>2</sup> ) of a 250 g/L trinexapac- ethyl product plus a quality non-ionic surfactant at 0.25% v/v (1000 g ai/L products), 0.42% v/v (600 g ai/L products) or Hasten at 1%v/v and apply during summer when turf is actively growing and Bahia grass produces seedheads. D0 NOT apply more than 2 consecutive applications of REIGN per season. See instructions under Bahia Grass ( <i>Paspalum</i> <i>notatum</i> ) Management for control of Bahia grass seedhead in established couch areas. Refer to Mixing and Application section for detailed information. <b>Important:</b> Refer to the trinexapac- ethyl labels for specific directions on mixing, application and protection of non-target crops and the environment

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED. DO NOT USE THIS PRODUCT IN THE HOME GARDEN

#### WITHHOLDING PERIOD

DO NOT graze treated turf or lawn; or feed turf or lawn clippings from any treated area to poultry or livestock.

#### **GENERAL INSTRUCTIONS**

Farmalinx REIGN Herbicide is a selective herbicide for application after emergence of weeds, for control of certain weeds in established turf. REIGN is a water dispersible granule formulation that mixes readily with water and is applied as a spray.

The degree of control resulting from application of REIGN is primarily dependent upon weed species, weed size at application, environmental conditions, amount of REIGN applied and growing conditions. Weed control is greatly improved when weeds have emerged, ample soil moisture exists and weeds are actively growing, rather than when the soil is dry and weeds are under stress from lack of moisture. Growth of susceptible weeds is inhibited soon after application of REIGN. The leaves of susceptible plants normally turn yellow, red or purple after several days, followed by necrosis and death of the growing point. Complete plant death generally occurs 2 to 4 weeks after application, depending on the weed species, growing conditions, etc.

Apply to actively growing weeds during early stages of development for best results. For optimum performance avoid mowing for 1 to 2 days prior to and following application.

#### Mode of Action

REIGN controls weeds by inhibiting a biochemical process that produces certain essential amino acids necessary for plant growth. The inhibited enzyme system is acetolactate synthase (ALS).

to strategies and alternative treatments that can be used should be obtained

normal genetic variability in any weed population. The resistant individuals

resistant to REIGN and other sulfonylurea herbicides may exist through

this product is a Group B herbicide. Some naturally occurring weed biotypes

and has the ALS Inhibitor mode of action. For weed resistance management

turfgrasses listed in the Directions for Use for a period of 12 months after

DO NOT replant any crop or ornamentals to treated areas other than

of the sulfonylurea group of herbicides

Farmalinx REIGN Herbicide is a member

Resistant Weeds Warning

Replanting interval

application.

#### Bahia Grass (Paspalum notatum) Management

Different grasses vary in their sensitivity to REIGN and products containing 120 g/L or 250 g/L trinexapac-ethyl. Bahia grass is very sensitive to the combination resulting in control of seedhead as well as vegetative growth suppression. Apply the combination as soon as seedheads start to form or when it becomes a regular mowing intervention issue, normally during October to January. Apply at 4 week intervals after mowing.

#### Mixing

REIGN can be tank mixed with products containing 120 g/L or 250 g/L trinexapac-ethyl. REIGN mixes readily with water, no pre-mixing is required. If pH of water is less than 5.5, use a buffer solution to raise pH to near 7.0. DO NOT mix REIGN with acid forming compounds in the spray tank. This product must be mixed with water and applied by suitable spray equipment.

- 1. Clean the spray tank before using. If it is contaminated with other materials, mixing problems and/or clogging may occur, or injury to the turf may result.
- 2. Fill tank no more than 25% full with clean water before adding REIGN. Begin agitating tank contents vigorously and continue agitation during entire mixing and spraying operation.
- 3. Pour required amount of REIGN steadily into tank. Allow vigorous bypass agitation to completely disperse product.
- 4. After adding required quantity of REIGN and obtaining complete dispersion, continue to fill tank to desired level for spraying.
- 5. Add required quantity of non-ionic surfactant if using and continue agitation.
- 6. Thorough agitation (preferably mechanical) of the spray liquid is essential during the addition of the product and during the entire spraying operation. Recirculate if left to stand.



CONTINUED OVERLEAF

7. Repeat steps 2 to 5.

cleaning solution.

decontamination of the tank.

the inside top surface and lid.



9. Rinse the complete spraying system with clean water. with filters, as they are a main source of contamination.







cleaning solution after completing the above procedures. Be careful

8. Remove nozzles, screens and strainers and clean separately in the

5. Flush hoses, spray lines and nozzles for at least 1 minute with the

need to be left in the tank for extended periods to ensure adequate

possibility of heavy build up of residues, the cleaning solution may

removed from the spraying system and, in cases where there is the

cleaning solution for at least 15 minutes. All visible deposits must be

plumbing. Start agitation in the sprayer and thoroughly recirculate the

of the cleaning solution with all internal suffaces of the tank and

4. Completely fill the sprayer with the cleaning solution to ensure contact

6. Dispose of rinsate from steps 1 to 5 in an appropriate manner.







Industries Department or a Farmalinx representative. from your local supplier, consultant, local Department of Agriculture, Primary

may result from the failure of REIGN to control the resistant weeds. Advice as detect prior to use, Farmalinx Pty Ltd accepts no liability for any losses that Group B herbicides. Since the occurrence of resistant weeds is difficult to repeatedly. These resistant weeds will not be controlled by REIGN or other can eventually dominate the weed population if these herbicides are used

GROUP 🚼 HERBICIDE

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Drift.

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or waterways with the chemical or used containers. DO NOT apply if heavy Very highly toxic to aquatic organisms. DO NOT contaminate streams, rivers

contact with roots of desirable plants. Refer to instructions to Avoid Spray

accumulate under the drip line of trees or where product may come into

dams or other waterways. Avoid applications to areas where product may

lands, pastures and other non-target plants or natural and impounded lakes,

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

SOS

request. Call Customer Service on 02 9389 2455.

and contaminated clothing. hands after use. After each day's use wash gloves, goggles or satety glasses goggles or safety glasses and elbow length chemical resistant gloves. Wash cotton overalls buttoned to the neck and wrist (or equivalent clothing), When opening the container, mixing and loading and preparing spray, wear

sheet for Farmalinx Reign Herbicide is available from FARMALINX Pty Ltd on

Attaitional information is listed in the safety data sheet (SDS). A safety data

When using together with other products, consult their label safety directions. Will irritate the eyes. May irritate the skin. Avoid contact with eyes and skin.

SNOITCORECTIONS

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

μιαλ cause spray to drift onto nearby susceptible plants/crops, cropping DO NOT apply under weather conditions or from spraying equipment that

tank with this solution. Take care to wash all parts of the tank, including iibvb nənw . ολεί τιμε resulting in a reduction in cleaning ability.

ie, use a pressure washer to crean the more of the spix

- water. Ensure ammonia used is fresh as it can degrade significantly 2. Prepare a cleaning solution of 300 mL of household ammonia/100 L As a first step, flush tank, hoses, boom and nozzles with clean water.
  - appropriate protective clothing.

spraying, clean equipment thoroughly using this procedure. Wear 1. Mix only as much spray solution as needed. Immediately after Start with a thoroughly cleaned sprayer before beginning the next job.

have finished spraying highly active materials such as sulfonylurea products. I horoughly clean spray equipment using the following procedure when you sprayer Cleanup

If sensitive plants are downwind, extreme caution must be used under all conditions. Drift from applications of this herbicide is likely to result in damage to sensitive plants adjacent to the treatment site. This damage can occur at levels below the concentrations that can be detected with chemical analysis

If conditions favour drift, recalibrate sprayer by reducing spray pressures and increasing spray volumes to produce larger droplets

Apply as close to surface of target turf as practical to obtain a good spray pattern for adequate coverage according to the manufacturer's recommendations. Ground applications are limited to a nozzle height of 50 cm above the ground.

rested prior to mixing commercial quantities. of Farmalinx, and water quality varies with location, all mixtures should be As formulations of other manufacturers' products are beyond the control Compatibility

herbicides, when spraying sensitive crops or turf species. a different boomsprayer that has not been used to spray sulfonylurea may not be physically possible and hence it may be advisable to use minute sulfonylurea herbicide residues. In some boom sprayers this contact with every surface or contact point that may contain even The above method is only effective if the cleaning solution comes into

Note: Spray solution should NOT be left standing in the tank overnight. Non-ionic Surfactants: Use products containing 600 g ai/L non-ionic surfactant at 0.42% v/v or 420 mL/100 L spray mix. Alternatively use other quality non-ionic surfactants (1000 g ai/L formulations) at 0.25% v/v or 250 mL/100 L or Hasten at 1 % v/v spray mix. Application D0 NOT apply with aircraft or through any type of irrigation equipment.

Spray nozzles should be uniformly spaced and of the same size, and should provide accurate and uniform application. To ensure accuracy, calibrate sprayer at the beginning of the season before use and recalibrate frequently. Apply at a volume of 400 to 800 L water/ha. Higher volumes should be used for severe weed infestations and higher cut turf (>15 mm) to ensure adequate spray coverage. Good weed coverage with the spray mixture is essential for optimum weed control. Observe sprayer nozzles frequently during the spraying operation to ensure that the spray pattern is uniform. Avoid overlapping of spray runs. Ensure that boom height for broadcast application does not exceed 50 cm above the leaf blades of the turf. Avoid application under conditions when uniform coverage cannot be obtained or when spray drift may occur.

#### Rainfastness

REIGN is rainfast within 3 hours of application.

#### Instructions to Avoid Spray Drift

DO NOT allow spray to drift onto adjacent turf sites or ornamental plants as even small amounts may injure sensitive plants. When drift may be a problem, take steps to reduce spray drift.

ιλ μιθμιλ τοχισ PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

resistant gloves. Clothing must be laundered after each days use. overalls buttoned to the neck and wrist (or equivalent clothing) and chemical DO NOT enter treated areas until the spray has dried, unless wearing cotton For Occupational Users:

> DO NOT allow entry into treated areas until the spray has dried. For General Public: Re-entry Period **PRECAUTION**

not burn empty containers or product. compliance with relevant local, state or territory government regulations. Do tor this purpose, clear of waterways, desirable vegetation and tree roots, in 200 mm below the surface in a disposal pit specifically marked and set up waste management facility is not available, bury the empty packaging empty packaging to an approved waste management facility. If an approved chemicals on site. If not recycling, break, crush, or puncture and deliver before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted NOT store for prolonged periods in direct sunlight. Triple rinse containers Store in the closed, original container in a cool, well ventilated area. DO **JASO92ID DNA 3DA90T2** 

## **CONDITIONS OF SALE:**

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 (other than nonexcludable statutory warranties) of merchantability or fitness for a particular purpose, express or implied, extends to the use of product contrary to label instructions, or under off-label permits not endorsed by Farmalinx Pty Ltd or under abnormal conditions. Farmalinx Ptv Ltd accepts no liability for any loss or damage arising from incorrect storage, handling or use.



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APVMA Approval No. 88827/122589

Reign	HERBICIDE	ACTIVE CONSTITUENT: 100 g/kg TRIFLOXYSULFURON SODIUM	GROUP <b>B</b> HERBICIDE	For control of sedges, grasses and broadleaf weeds in turf as specified in the Directions for Use table.	IMPORTANT: THIS LEAFLET IS PART OF THE LABEL ATTACHED TO THE CONTAINER. Read Thoroughly before opening or using this product.