



Product Name: PENNMAG TURF HERBICIDE
APVMA Approval No: 69865/149846

Label Name:	PENNMAG TURF HERBICIDE
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Signal Headings:	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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Constituent Statements:	ACTIVE CONSTITUENT: 960 g/L S-METOLACHLOR SOLVENTS: 29 g/L AROMATIC HYDROCARBON (A) 13 g/L AROMATIC HYDROCARBON (B)
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Mode of Action:	GROUP 15 HERBICIDE
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Statement of Claims:	For pre-emergent control of weeds in turf as per the Directions for Use
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Net Contents:	1 L - 100 L
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Restraints:	DO NOT apply by aircraft DO NOT apply using irrigation equipment DO NOT apply using spraying equipment carried on the back of the user DO NOT apply to turf under heat or moisture stress DO NOT apply to waterlogged soils DO NOT irrigate to the point of runoff for at least 3 days after application DO NOT apply if heavy rain has been forecast within 48 hours DO NOT apply to golf putting greens or bowling greens DO NOT apply to newly laid turf sods. Wait until turf has established DO NOT apply to newly seeded or recently over seeded turf. Wait until turf has established 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. Wherever
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	<p>possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.</p> <p>DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.</p> <p>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.</p>
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Directions for Use:	This section contains file attachment.
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Other Limitations:	
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Withholding Periods:	WITHHOLDING PERIODS: DO NOT GRAZE TREATED TURF/LAWN OR FEED TURF/LAWN CLIPPINGS FROM ANY TREATED AREA TO POULTRY OR LIVESTOCK
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Trade Advice:	
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General Instructions:	<p>GENERAL INSTRUCTIONS</p> <p>PENN MAG® is a pre-emergent herbicide for the control of various annual grasses and broadleaf weeds. PENN MAG® is safe to use on established and recovering turf. The product acts mainly through shoot (coleoptile) absorption. Its effectiveness depends on the occurrence of rainfall or irrigation to move it down into the top 3 to 4 cm of soil, where it must be present at the time of weed germination. If applying PENN MAG® to warm season turf during the transition from winter to spring, avoid applications when soil temperatures remain low. Turf recovery will be greater if applied when soils have already commenced warming.</p> <p>Mixing Add PENN MAG® directly to a spray tank containing 2/3 of the required spray volume. Add the rest of the water and ensure the mix is thoroughly agitated before application. Maintain agitation during application.</p> <p>Application Apply prior to weed emergence. Total application volume should be minimum 750 L/ha. Use coarse droplets (eg Air Induction flat fan 08 nozzles). 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. 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 does not exceed 50 cm above the leaf blades of the turf. Fallow soil: When applying to fallow soil follow application with irrigation of at least 3 mm within 24 to 48 hours. Established turf: When applying to established turf (full or recovering canopy) immediately follow application with at least 3 mm irrigation.</p>
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Resistance Warning:	<p>Resistant Weeds Warning</p> <p>PENN MAG® Turf Herbicide is a member of the α-chloroacetamides group of herbicides. The product has the inhibition of very long chain fatty acid synthesis mode of action. For weed resistance management the product is a Group 15 herbicide. Some naturally</p>
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	<p>occurring weed biotypes resistant to the product and other Group 15 herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by this product or other Group 15 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Syngenta Australia Pty Ltd accepts no liability for any losses that may result from the failure of this product to control the resistant weeds. Advice as to strategies and alternative treatments that can be used should be obtained from your local supplier, consultant, local Department of Agriculture, Primary Industries Department or a Syngenta representative.</p> <p>Integrated Pest Management</p> <p>The possible effects of PENNMAG® on integrated pest management (IPM) strategies in the turf industry have not been studied at the proposed rates.</p>
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Precautions:	<p>Re-entry Period</p> <p>General Public: DO NOT allow public re-entry into treated areas until the spray has dried.</p> <p>Ground Staff / Professional Operators: DO NOT enter treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves.</p>
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Protections:	<p>PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS</p> <p>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.</p> <p>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT</p> <p>Toxic to fish. DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.</p>
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Storage and Disposal:	<p>Store in the closed original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple rinse containers before disposal. Add rinsings to the 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 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with Local, State or Territory government regulations. DO NOT burn empty containers or product.</p>
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Safety Directions:	<p>Harmful if inhaled. DO NOT inhale spray mist. Will damage the eyes. Avoid contact with eyes. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing.</p> <p>When opening the container, preparing and using the prepared spray wear:</p> <ul style="list-style-type: none"> • goggles • a disposable mist face mask covering mouth and nose <p>If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash goggles.</p>
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First Aid Instructions:	If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131 126.
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First Aid Warnings:	
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DIRECTIONS FOR USE

Situation	Weed	Rate	Critical Comments
Turf	African Love Grass (<i>Eragrostis curvula</i>), Annual Ryegrass (<i>Lolium rigidum</i>), Barnyard Grass (<i>Echinochloa spp</i>), Burr Medic (<i>Medicago polymorpha</i>), Carrot Weed (<i>Cotula australis</i>), Crowsfoot Grass (<i>Eleusine indica</i>), Liverseed Grass (<i>Urochloa panicoides</i>), Pigeon Grass (<i>Setaria spp</i>), Summer Grass (<i>Digitaria sanguinalis</i>) Winter Grass (<i>Poa annua</i>) Suppression of Pigweed (<i>Portulaca oleracea</i>)	2 L/ha or 20 mL/100 m ²	Apply prior to weed emergence for residual control of up to 8 weeks. Follow application with at least 3 mm irrigation. Sporting fields: Apply once per year in late winter to early spring. Turf production: Apply a single application to the soil immediately post-harvest. Refer to Application section for detailed information.

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