



Product Name: FREEHAND HERBICIDE
Application No: 86278/124194

Label Name:	FREEHAND HERBICIDE
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Signal Headings:	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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Constituent Statements:	10 g/kg PENDIMETHALIN 7.5 g/kg DIMETHENAMID-P
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Mode of Action:	GROUP D K HERBICIDE
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Statement of Claims:	For pre-emergent control of weeds associated with ornamental plants in containers and in-ground and in warm season turf.
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Net Contents:	10kg 18.2kg 18.4kg 18.6kg 18kg 19kg 1kg 1.5kg 2.5kg 20kg 21kg 22.7kg 2kg 3.5kg 3kg 4.5kg 4kg 5.5kg 5kg 6kg 7kg 8kg
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9kg

Restraints:	<p>DO NOT apply to Ornamentals under stress resulting from factors including (but not limited to) lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, poor soil condition or disease.</p> <p>DO NOT broadcast over wet foliage.</p> <p>DO NOT apply in glasshouses or poorly ventilated poly-houses.</p> <p>DO NOT apply in windy conditions as likely to affect good distribution.</p> <p>DO NOT apply to putting greens.</p> <p>DO NOT apply via aerial application.</p> <p>DO NOT apply to turf grass within 2 weeks of mechanical disturbance such as aerification or verticutting.</p> <p>DO NOT apply to newly seeded turf areas.</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:	DO NOT GRAZE TREATED TURF OR LAWN; OR FEED TURF OR LAWN CLIPPINGS FROM ANY TREATED AREA TO POULTRY OR LIVESTOCK.
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Trade Advice:	
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General Instructions:	This section contains file attachment.
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Resistance Warning:	<p>GROUP D K HERBICIDE</p> <p>FREEHAND® Herbicide is a member of the Dinitroanilines (DNAs) and Chloroacetamides groups of herbicides. The product has the combination of Inhibitors of microtubule assembly and inhibitors of cell division / inhibitors of very long chain fatty acids (VLCFA inhibitors) modes of action. For weed resistance management, the product is a Group D & a Group K herbicide. Some naturally occurring weed biotypes resistant to the product and other Group D & Group K 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 D or Group K herbicides.</p> <p>Since the occurrence of resistant weeds is difficult to detect prior to use, BASF Australia Ltd accepts no liability for any losses that may result from the failure of this product to control resistant weeds.</p>
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Precautions:	
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Protections:	PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT To protect birds, remove spillages.
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	<p>Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.</p> <p>PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS</p> <p>Ornamentals: Plant only those desirable plant species listed on this label into soil or potting mix treated the previous season with FREEHAND or injury may occur.</p> <p>Turf: For application of FREEHAND to warm season turfgrass species not listed in the Directions for Use Table, test the safety of FREEHAND by applying to a small area first.</p>
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Storage and Disposal:	<p>For 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10 kg bottles/drums:</p> <p>Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Triple-rinse containers before disposal. Dispose of rinsate or any undiluted chemical according to state/territory legislative requirements. 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 relevant local, state or territory government regulations. Do not burn empty containers or product.</p> <p>For 18, 18.2, 18.4, 18.6, 19, 20, 21, 22, 22.7 kg bags:</p> <p>Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Single rinse or shake remainder into spreader. Do not dispose of undiluted chemicals on site. 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 relevant local, state or territory government regulations. Do not burn empty containers or product.</p> <p>SPILLS</p> <p>Sweep up spilled material and return to original container. Wash contaminated equipment taking care that washings do not enter sewers, drains and other waterways.</p>
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Safety Directions:	Will irritate the eyes. Avoid contact with eyes. If product in eyes, wash it out immediately with water. When opening the container and preparing the product for use, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a face shield or goggles. If applying by hand, wear cotton overalls over normal clothing buttoned to the neck or wrist (or equivalent clothing), a washable hat, elbow-length chemical resistant gloves and face shield or goggles. Wash hands after use. After each day's use, wash face shields or goggles and contaminated clothing.
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First Aid Instructions:	If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766
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First Aid Warnings:	
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DIRECTIONS FOR USE

SITUATION	WEEDS	RATE	CRITICAL COMMENTS
Container & in-ground Ornamental plants (See table below in GENERAL INSTRUCTIONS)	Amaranth (<i>Amaranthus cruentus</i>) Annual ryegrass (<i>Lolium rigidum</i>) Awnless barnyard grass (<i>Echinochloa colona</i>) Bittercress (<i>Coronopus didymus</i>) Bladder ketmia (<i>Hibiscus trionum</i>) Brazilian white-eye (Mexican clover) (<i>Richardia brasiliensis</i>) Chickweed (<i>Stellaria media</i>) Crowsfoot grass (<i>Eleusine indica</i>) Dandelion (<i>Taraxacum officinale</i>) Deadnettle (<i>Lamium amplexicaule</i>) Fat hen (<i>Chenopodium album</i>) Giant or Black Pigweed (<i>Trianthema portulacastrum</i>) Green fat hen (<i>Chenopodium murale</i>) Indian hedge mustard (<i>Sisymbrium orientale</i>) Pigweed (<i>Portulaca oleracea</i>) Poa Trivialis (<i>Poa trivialis</i>) Prickly lettuce (<i>Lactuca serriola</i>) Shepherd's purse (<i>Capsella bursa-pastoris</i>) Signal grass (<i>Brachiaria decumbens</i>) Summer grass (<i>Digitaria sanguinalis</i>) Toad rush (<i>Juncus bufonius</i>) Wild Hops / Apple of Peru (<i>Nicandra physaloides</i>) Wild mustard (<i>Sisymbrium officinale</i>) Wireweed (<i>Polygonum aviculare</i>)	100 kg/ha or 1.0 kg/100 square metres or 10 g/square metre	Apply evenly over the area or pots to be treated preferably using a properly calibrated mechanical granule spreader. Apply to the surface of weed free soil preferably after cultivation or just after potting up.
Recreational Turf: including but not limited to: fairways, golf tees, municipal sports fields, industrial commercial and domestic lawns.			FREEHAND will not control established weeds. Apply to dry foliage only and then sprinkler irrigate or hose (10-15 mm) to wash granules from foliage and incorporate the herbicide into the soil. Do not apply FREEHAND to wet foliage – should this happen irrigate or hose immediately to remove granules from the leaf surface.
Warm Season Turf species only:			
Hybrid Couch (<i>Cynodon dactylon</i> <i>Cynodon transvaalensis</i>) Common Couch (<i>Cynodon dactylon</i>) QLD Blue Couch (<i>Digitaria didactyla</i>) Carpet Grass (<i>Axonopus compressus</i>) Kikuyu (<i>Pennisetum clandestinum</i>) Buffalo (<i>Stenotaphrum secundatum</i>) Zoysia (<i>Zoysia japonica</i> and <i>Zoysia matrella</i>)	Suppression of: Annual nettles (<i>Urtica spp.</i>) Bittercress (<i>Coronopus didymus</i>) Blackberry nightshade (<i>Solanum nigrum</i>) Fumitory (<i>Fumaria spp.</i>) Pennyroyal (<i>Mentha pulegium</i>) Scrambling speedwell (<i>Veronica persica</i>) Stonecrop (<i>Crassula sieberiana</i>) Subterraneum clover (<i>Trifolium subterraneum</i>) Turnip weed (<i>Rapistrum rugosum</i>) Wild radish (<i>Raphanus raphanistrum</i>) Winter grass (<i>Poa annua</i>)		Follow the precautions listed below to avoid unnecessary plant damage and to obtain optimum weed control. One application will last for 2-3 months depending upon rainfall, irrigation, soil type (potting mix), temperature and weed seed burden.
	Barnyard grass (<i>Echinochloa spp.</i>) Button grass (<i>Dactyloctenium radulans</i>) Common heliotrope (<i>Heliotropium europaeum</i>) Creeping oxalis / yellow woodsorrel (<i>Oxalis stricta</i>) Crested goosefoot (<i>Chenopodium cristatum</i>) Cudweed (<i>Gnaphalium luteo-album</i>) Early spring grass (<i>Eriochloa spp.</i>) Fleabane (<i>Conyza canadensis</i>) Flickweed (<i>Cardamine hirsuta</i>) Green summer grass (<i>Brachiaria subquadripara</i>) Guinea grass (<i>Panicum maximum</i>) Dwarf amaranth (<i>Amaranthus macrocarpus</i>)	200 kg/ha or 2.0 kg/100 square metres or 20 g/square metre	Retreat when the first signs of weed growth are seen but no sooner than 2 months and no later than 3 months after the first application. Ornamentals Do not apply FREEHAND 2 weeks prior to or 2 weeks after leaf bud break or during periods of flush growth. Newly formed leaves are sensitive to this product. Spotting or leaf drop may result from such applications. Do not apply directly on to bare roots of woody ornamentals as injury may occur.

SITUATION	WEEDS	RATE	CRITICAL COMMENTS
	Green amaranth (<i>Amaranthus viridis</i>) Liverseed grass (<i>Urochloa panicoides</i>) Liverwort (<i>Marchantia polymorpha</i>) Milk or Sowthistle (<i>Sonchus oleraceus</i>) Mossman River grass (<i>Cenchrus echinatus</i>) Native millet (<i>Panicum decompositum</i>) Pale pigeon grass (<i>Setaria glauca</i>) Paspalidium (Brigalow grass) (<i>Paspalidium spp.</i>) Pepper grass (<i>Panicum whitei</i>) Queensland blue grass (<i>Dichanthium sericeum</i>) Red Flinders grass (<i>Iseilema vaginiflorum</i>) Scarlet pimpernel (<i>Anagallis arvensis</i>) Small burr grass (<i>Tragus australianus</i>) Stink grass (<i>Eragrostis cilianensis</i>) Summer grass (<i>Digitaria ciliaris</i>) Weeping love grass (<i>Eragrostis parviflora</i>) Winter grass (<i>Poa annua</i>) White clover (<i>Trifolium repens</i>) Suppression of: Caltrop (<i>Tribulus terrestris</i>) Common verbena (<i>Verbena officinalis</i>) Mintweed (<i>Salvia reflexa</i>) Peppergrass (<i>Lepidium spp.</i>) Stagger weed (<i>Stachys arvensis</i>) Willow herb (<i>Epilobium sp.</i>) Red caustic creeper / Petty Spurge (<i>Euphorbia spp.</i>)		Turf Apply prior to germination of weeds (typically from early spring through to late summer/early Autumn). Delay overseeding of treated turfgrass for at least 3 months after last application. Application of Freehand to newly sodded areas must be delayed until turfgrass root system has been well established and turfgrass mowed at least 2 times.

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

GENERAL INSTRUCTIONS

FREEHAND Herbicide is a selective herbicide for the control of most annual grasses and certain broadleaved weeds. FREEHAND controls weeds by inhibiting seedling development; it will not control established weeds. For best results, container or soil surfaces should be free of weeds, trash and clods at the time of application. Unusually cold, excessively wet, or hot and dry conditions that delay or extend weed seed germination can reduce weed control.

Note on Ornamentals: Freehand Herbicide has been used on a wide range of ornamental species without damage. However, some species and varieties are particularly susceptible to chemical products. As sensitivity may be related to local conditions it is advisable that only a small portion of plants are treated first to determine reaction to the product before treating entire crop.

The table below lists species which have been shown to be tolerant to Freehand at the highest 20 g rate.

TOLERANT ORNAMENTALS SPECIES
Acmena (var. Forest flame)
<i>Agapanthus</i> spp. (cv. Purple Cloud)
Agave, Sisal
Aloe, Tiger (cv. Fairy Pink)
Azalea
Blue Liliy turf (cv. Evergreen Giant)
Bottle Brush, Flaming (cv. Matthew Flinders)
Carnation (cv. Pluto)
<i>Coleonema pulchellum</i> (golden diosma, confetti bush (cv. Aurea)
Common Box (cv. Micro)
<i>Dianella congesta</i> (flax lily) (cv. Clarity Blue)
Dianthus (cv. Candy Floss)
English Lavender
French Hydrangea
Gaura Lindheimeri (cv. Dark Pink)
Glossy Abelia
Grape, European
Hibiscus – Rosemallow (cv. Breeze)
Japanese Boxwood
Japanese Garden Juniper (cv. Nana)
Lantana
Lavender (cv. Princess Lavand)
Mandevilla
Mango Tree (cv. Young Giant)
Metrosideros (var. Little Eyyan)
Mondo Grass
Ophipogon Japonicas
Orange Jessamine (Superb hedging)
Petunia
<i>Philodendron xanadu</i>
Raphiolepis (cv. Spring Pearl)
<i>Rhaphiolepis indica</i> (Indian Hawthorn) (cv. Oriental Pearl)
Szygium (var. Aussie Boomer)
Sweet Viburnum
Xanthostemon (var. Chrysanthus)
Yucca

APPLICATION

Ornamentals: FREEHAND may be applied individually to each pot or pots can be grouped together and distributed using a granule applicator or GLOVED hand. Ensure applicators are properly calibrated to apply granules evenly. After application ensure granules are brushed or washed off foliage. Even application is important for good weed control. FREEHAND application should be followed by irrigation or rainfall, before weeds germinate. If Freehand is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

Turf: Ensure area is clean of debris prior to application. FREEHAND may be applied and distributed using a granule applicator or GLOVED hand. Ensure applicators are properly calibrated to apply granules evenly. Oscillating spout or rotary type fertiliser spreaders are recommended for large areas. Even application is important for good weed control. FREEHAND application should be followed by irrigation or rainfall, before weeds germinate. If FREEHAND is not activated by rainfall or irrigation within 30 days, erratic weed control may result.