

POISON

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

MACSPRED HEXMAC[®] 750 SG HERBICIDE

ACTIVE CONSTITUENT: 750 g/kg HEXAZINONE

GROUP	5	HERBICIDE
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For the control of certain sedges, perennial grasses, broadleaf and woody weeds in *Pinus radiata* forests, and industrial weed control situations.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT

NOTICE (NSW ONLY)

WITH THE EXCEPTION OF REGROWTH LESS THAN 5 YEARS OLD AND UNDER THREE METRES TALL, THE CLEARING OF MORE THAN FIVE HECTARES OF TREES BY AERIAL OR GROUND APPLICATION IN NSW IS PROHIBITED, UNLESS SPECIFICALLY AUTHORISED BY PERMIT. THIS RESTRICTION DOES NOT APPLY TO WOODY WEEDS AND STEM INJECTION OF TREES.

Contents: 10kg

MACSPRED PTY LTD
13 KENNEDYS DRIVE
DELACOMBE VIC 3356
Tel 03 53 358522

®MACSPRED REGISTERED TRADEMARK

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, well-ventilated area, as cool as possible out of direct sunlight.

DO NOT store or expose product to wet conditions.

Keep away from contact with fertilisers, fungicides and seeds.

Single-rinse or shake remainder into spray tank. 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. Do not re-use container for any other purpose.

SAFETY DIRECTIONS

Harmful if swallowed. Will irritate eyes. Avoid contact with eyes. When opening the container, preparing product for use and using prepared spray wear face shield or goggles. Wash hands after use. After each day's use wash face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre Phone Australia 13 11 26; New Zealand 0800 764 766. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

SAFETY DATA SHEET

For further information refer to the Safety Data Sheet which is available from the supplier.

NOTICE TO BUYER

To the extent permitted by law all conditions and warranties and statutory or other rights of action which buyer or any other user may have against Macspred or Seller are hereby excluded. Macspred hereby gives notice to buyer and other users that it will not accept responsibility for any indirect or consequential loss arising from reliance on product information or advice provided by Macspred or on its behalf unless it is established that such information or advice was provided negligently and that the product has been used strictly as directed. Macspred's liability shall in all circumstances be limited to replacement of the product or a refund of the purchase price paid therefor.

APVMA Approval No: 61923/132021

Batch No:

Date of Manufacture:

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DIRECTIONS FOR USE
GROUND AND AERIAL APPLICATION (Foliar Spray Applications)
Pinus radiata plantations

Situation	Weeds Controlled	State	Rate/ha	Critical Comments
Pre-planting SITE PREPARATIONS	ANNUALS: Flatweeds, Rye grasses, Clovers	Qld, NSW, ACT, Vic, Tas, WA Only	2.5 kg	Apply any time from March through to July. It is recommended to delay planting until planting lines become clearly visible, i.e. when effects of the product are evident. Machine planting is not recommended, as soil disturbance will reduce the residual activity.
	HARD-TO-KILL PERENNIALS: Wallaby Grass, Serrated Tussock, Sorrel, Dandelion, Kangaroo Grass (Suppression Only)		3.5 - 5 kg	
Native Woodland, Heath & Second Rotation Sites - long term control	WOODY & HARD-TO-KILL WEEDS: Bracken, Varnish Acacia (<i>Acacia verniciflua</i>), Sunshine Acacia (<i>Acacia botrycephala</i>), Silver Wattle (<i>Acacia dealbata</i>), Hop Goodenia (<i>Goodenia ovata</i>), Common Cassinia (Dogwood Vic only) (<i>Cassinia aculeata</i>)		5 kg	
Post-planting TREE RELEASE APPLICATION	ANNUALS: See: "Pre-planting SITE PREPARATIONS" HARD-TO-KILL PERENNIALS: See: "Pre-planting SITE PREPARATIONS"	NSW, ACT, Vic, Tas, SA, WA Only	2 kg + 8L atrazine 500SC OR 5 kg Atrazine 900 WG	Allow 4 weeks after transplanting before application. See below Avoid use on <i>Pinus radiata</i> suffering from stress (such as drought or water logging) or when temperatures exceed 25°C.
Pasture Sites	ANNUAL AND PERENNIAL WEEDS: See: "Pre-planting SITE PREPARATIONS"	Qld, NSW, ACT, Vic, Tas, WA Only	3.5 - 5 kg	Apply during August, September, October. Allow 8 weeks after transplanting before treatment. * DO NOT apply surfactant/wetting agent when spraying over <i>Pinus radiata</i> trees.
Native Woodland Heath & Second Rotation Sites- long term control	WOODY & HARD -TO-KILL- WEEDS: See: "Pre-planting SITE PREPARATIONS - Native Woodland etc."		5 kg	
Loamy Sands & Sandy Soils	Sorrel, Yorkshire Fog Grass, Annual Ryegrass	SA Only	3.5 kg	Apply during August or September, October. Allow 8 weeks after transplanting before treatment. See above*.

FORESTRY SPOTGUN

CROP AND SITUATION	WEEDS CONTROLLED	STATES	RATE	CRITICAL COMMENTS
Post-Planting TREE RELEASE APPLICATIONS Pasture sites And Native woodland, heath and second rotation sites	ANNUALS Brome Grass, Capeweed, Chickweed, Clovers, Flatweeds, Rye grasses	Qld, NSW, ACT, Vic, Tas, WA Only	6 or 12 mL of spray solution/pine	Mix 1 kg Macspred Hexmac 750 SG with 30 L water and apply amount shown/pine. Use the higher rates of Macspred Hexmac 750SG: - when weed pressure is heavy. <input type="checkbox"/> - when grasses are the major problem. - <input type="checkbox"/> for longer term weed control and greater pine growth responses Hold Forestry Spotgun (fitted with 120° solid cone nozzle) over the pine (slightly off centre to the central leader) with the nozzle tip 50 cm above the ground when making the application. Apply 1 – 4 months after pines have been transplanted into plantation.
	HARD TO KILL PERENNIALS: Dandelion, Docks, Paspalum, Ribwort/Plantain, Serrated Tussock, Snow Grass, Sorrel, Wallaby Grass, Yorkshire Fog Grass, Kangaroo Grass (Suppression Only).		10 or 12 mL of spray solution/pine	

INDUSTRIAL WEED CONTROL APPLICATIONS GROUND APPLICATION (Foliar Spray Applications)

SITUATION/CROP	WEEDS CONTROLLED	STATE S	RATE	CRITICAL COMMENTS
Commercial and industrial areas, rights of way, around agricultural buildings	ANNUAL WEEDS Summer Grass, Barnyard Grass, Love grass, Green Amaranth, Asthma Plant, Common Sida, Common Sow-thistle, Wild Oats, Soft Brome, Great Brome, Medics, Fleabanes, Paterson's Curse (Salvation Jane), Blackberry Nightshade	ALL STATES	4 - 6 kg/ha	Use the higher rates on heavy soils and soils high in organic matter or carbon; on light soils where rainfall is heavy or on dense established stands of hard to kill species such as paspalum, couch grass (<i>Cynodon dactylon</i>), nut grass and kikuyu.
	PERENNIAL WEEDS: Docks, Creeping Buttercup, Ribwort (plantain), Couch Grass (<i>Cynodon dactylon</i>),	Qld, NSW, ACT, WA Only	6 - 8 kg/ha	
	Paspalum, Nutgrass, Kikuyu, Artichoke Thistle, Rhodes Grass, Chicory, Flatweeds	Vic, SA, TAS Only	8 kg/ha	
	<i>Parthenium hysterophorus</i>	Qld, NSW, ACT Only	1 kg/ha (Large areas) 2 g/10 L/20 m ² (Small areas)	
	Spiny Rush (<i>Juncus acutus</i>)	Vic Only	120 - 180 g/100 L	

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

GENERAL INSTRUCTIONS

Macspreed Hexmac 750SG Herbicide is an effective foliar contact and soil active residual herbicide. Use sufficient water for thorough uniform coverage. For best foliar and residual control, apply as a post-emergent spray during the period of active plant growth and when the air temperatures are 25°C and above. Applications when vegetation is dormant, semi-dormant, under moisture stress or during the winter months may not be as effective.

In temperate winter rainfall areas where temperatures are generally below 25°C during the period of active plant growth, the foliar effect may be slow to appear. In these areas herbicide activity is more dependent on root absorption.

For residual control, sufficient rainfall is required after treatment to promote root absorption by the weeds.

Results obtained may vary with the amount of chemical applied, rainfall, air temperature, soil type and other conditions.

All use rates of the product are expressed as overall rates. For band treatment use proportionately less, i.e. use one-third the overall rate when treating one-third of the area.

DO NOT apply Macspreed Hexmac 750SG Herbicide during periods of intense rainfall, when wind speed exceeds 30 kph (for ground application) or when wind speed exceeds 20 kph (for aerial application).

DO NOT broadcast apply this product where there is no vegetation or slash or on uncultivated areas or non mounded or bare ground on slopes.

Equipment and Application

Macspreed Hexmac 750SG Herbicide is a dry flowable formulation. The product is mixed with water and applied at recommended rates with either ground or aerial equipment (dependent on use pattern).

Partially fill the spray tank with water and add the correct amount of the product for the area to be sprayed with the agitation system engaged. Top up to correct volume with water, and for best results keep the spray solution agitated whilst spraying. **THE MATERIAL MUST BE KEPT IN SUSPENSION AT ALL TIMES BY CONTINUOUS AGITATION.** To prevent nozzle blockage, strainer and nozzle screens should be 50 mesh or coarser.

Pinus radiata

Ground Application – Apply in 100 to 400 L/ha with a properly calibrated boom.

Forestry Spotgun – see Directions for Use – Critical comments

Aerial Application - Apply a minimum of 20 L water for every 1 kg of product used, eg. 5 kg in 100 L of water per hectare.

Use a surfactant/wetting agent for pre-planting applications only, by either ground or aerial equipment. **DO NOT** add a surfactant if the spray is to be applied over the top of *Pinus radiata* trees.

A non-ionic surfactant/wetting agent (such as BS 1000) may be added at the rate of 250 - 500 mL/100 L of spray (for a surfactant containing 100 % active constituent) for improved wetting.

Industrial weed control

Ground Application only - Apply in 100 to 400 L/ha with a properly calibrated boom or 2000 – 4000 L/ha with hand spray equipment.

A non-ionic surfactant/wetting agent (such as BS 1000) may be added at the rate of 250 - 500 mL/100 L of spray (for a surfactant containing 100 % active constituent) for improved wetting.

Crop Safety

Because death or injury to trees may result, **DO NOT** apply after planting in the following situations:

- a) On trees which show poor vigour due to disease, or environmental factors such as drought, moisture stress or waterlogging;
- b) On poorly drained soils;
- c) On gravelly or rocky soils, and exposed subsoils.

Equipment Cleanup

Thoroughly clean all traces of Macspred Hexmac 750SG Herbicide from application equipment immediately after use. Failure to remove residues may result in damage to sensitive plants in subsequent treated areas.

RESISTANT WEEDS WARNING

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Macspred Hexmac 750SG Herbicide is a member of the Triazines group of herbicides. Macspred Hexmac 750SG Herbicide has the Inhibitors of photosynthesis at photosystem II mode-of-action. For weed resistance management Macspred Hexmac 750SG Herbicide is a Group 5 herbicide. Some naturally-occurring weed biotypes resistant to Macspred Hexmac 750SG Herbicide and other Group 5 herbicides may exist through 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 Macspred Hexmac 750SG Herbicide or other Group 5 herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Macspred accepts no liability for any losses that may result from the failure of Macspred Hexmac 750SG Herbicide to control resistant weeds.

Large numbers of healthy surviving weeds can be an indication that resistance is developing. Efforts should be made to prevent seed set of the survivors.

DO NOT make more than one application of an Inhibitor of photosynthesis at photosystem II herbicide in the same season.

If the user suspects that a Group 5 resistant weed is present, Macspred Hexmac 750SG Herbicide or other Group 5 herbicides should not be used.

Strategies to minimise the risk of herbicide resistance are available. Consult your farm chemical supplier, consultant, local Department of Agriculture or Primary Industries, or local Macspred representative.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

The product may kill many trees and other desirable plants if not correctly applied.

DO NOT apply on or near desirable trees or other plants, or on areas where their roots may extend. As guidance this is two times their height, or more depending on the species and other conditions.

DO NOT apply in areas where a surface flow of water could wash the chemical into areas where roots of desirable trees or plants may extend.

DO NOT drain or flush spray equipment near desirable trees or in areas where their roots may extend.

DO NOT apply under windy conditions and in areas where spray drift could damage valuable plants.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate ponds, streams, rivers, watercourses or drains with the chemical or used containers.

DO NOT apply within 25 m of a recognised waterway, or further if native riverbank vegetation may be damaged (see Protection of Native and other Non-target Plants).

PROTECTION OF LIVESTOCK

Keep stock away from treated areas.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, well-ventilated area, as cool as possible out of direct sunlight. **DO NOT** store or expose product to wet conditions.

Keep away from contact with fertilisers, fungicides, and seeds.

Single-rinse or shake remainder into spray tank. 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. Do not re-use container for any other purpose.

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