

# CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

## MACSPRED FOREST MIX<sup>®</sup> FLEXI-MIX HERBICIDE

ACTIVE CONSTITUENTS: 125 g/kg HEXAZINONE  
750 g/kg ATRAZINE

GROUP	C	HERBICIDE
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FOR THE RESIDUAL CONTROL OF A WIDE RANGE OF ANNUAL AND HARD TO KILL PERENNIAL WEEDS IN *PINUS RADIATA* PLANTATIONS.

NET CONTENTS: 12 KG

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<sup>®</sup>Macsprod Registered Trademark

## DIRECTIONS FOR USE

Restraints - DO NOT use on leached sandy soils, low in organic matter.

DO NOT apply to waterlogged soil.

DO NOT apply if heavy rains or storms that are likely to cause run-off are forecast within 2 days of application.

DO NOT irrigate to the point of run-off for at least 2 days after application.

DO NOT apply product to any drainage line. Drainage lines show evidence of the action of periodically flowing water (for example, gravel, pebble, rock and sand bed, scour hole or nick point) and/or an incised channel at least 30 cm deep.

DO NOT handle, mix, apply or conduct testing operations in areas susceptible to run-off where drainage results in rapid entry into waterways. These areas include roads, access tracks, snig tracks and compacted log dumps where no specific action has been taken to prevent run-off into waterways, or areas mounded perpendicular to the contour, roads, access tracks, snig tracks and compacted log dumps.

DO NOT use a knapsack sprayer.

## METHOD OF APPLICATION - GROUND AND AERIAL APPLICATION (foliar spray applications)

CROP AND SITUATION	WEEDS CONTROLLED	STATES	RATE kg/ha	CRITICAL COMMENTS
<i>Pinus radiata</i> , <u>Pre Plant Treatment</u>	Capeweed, Clovers, Common Sow Thistle, Spear Thistle seedlings, Mouse-ear chickweed, Ryegrass, Wild Oats, Sand Brome, Silver Grass, Yorkshire Fog	NSW, ACT, Vic, WA, Qld, Tas only	6.0 kg (1X 2 ha bulk bag)	Graze the area heavily and apply by boom or aircraft no more than two weeks before planting. 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.
<i>Pinus radiata</i> only: <u>Post Planting Tree Release Application</u>		NSW, ACT, Vic, SA, WA, Tas only		Apply during July, August, September or October. Allow 8 weeks after transplanting before application. Avoid use on <i>Pinus radiata</i> suffering from stress (such as drought or water logging) or when temperatures exceed 25°C. Avoid

				use on shale soils and exposed subsoils. Applications must be made before the spring flush commences.
<i>Pinus radiata</i> only: <u>Post Planting Tree Release Application</u>	HARD TO KILL PERENNIALS: Wallaby grass, Serrated tussock, Sorrel, Dandelion, Kangaroo grass (suppression only)		6.0 kg (1X 2 ha bulk bag) plus 1 kg/ha Macspred Hexmac 750 SG Herbicide	Apply during July, August, September or October. Allow 8 weeks after transplanting before application. Avoid use on <i>Pinus radiata</i> suffering from stress (such as drought or water logging) or when temperatures exceed 25°C. Avoid use on shale soils and exposed subsoils. Applications must be made before the spring flush commences.

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

MACSPRED FOREST MIX FLEXI-MIX HERBICIDE MAY KILL MANY TREES AND OTHER DESIRABLE PLANTS IF NOT CORRECTLY APPLIED. INSTRUCTIONS GIVEN IN PROTECTION OF LIVESTOCK, WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT AND OTHER STATEMENTS ON THIS LABEL MUST BE FOLLOWED.

**GENERAL INSTRUCTIONS**

- This product is a water dispersible formulation that mixes readily in water. It is an effective foliar contact and soil residual herbicide.
- For best residual control, apply during periods of active plant growth. Application when vegetation is dormant, semi-dormant, under moisture stress or during winter months may not be as effective.
- In temperate winter rainfall areas where temperatures are generally below 25°C during the period of active growth, overall effect may be slow to appear. For best control of perennials, apply during the months of spring in these areas. In WA and SA apply only during April-August when adequate rainfall is expected.
- Sufficient moisture is required after treatment to promote root absorption by the weed species.
- Results obtained may vary with rainfall, soil types and other conditions.
- DO NOT apply Forest Mix Flex-Mix Herbicide during periods of intense rainfall or under conditions which will cause drift or movement to non-target areas.
- On slopes exceeding 30% DO NOT broadcast apply this product where there is no vegetation or slash, or on uncultivated or non-mounded or on bare ground.

- Poor performance may result when applied to soils with high carbon content.

### **LOADING, APPLICATION AND EQUIPMENT**

Macspreed Forest Mix Flexi-Mix Herbicide is a wettable formulation. The product is mixed with water and applied at the recommended rates by ground or aerial application (see directions for use table).

The product is contained in a 2 ha bulk bag. It is important that these bags are used entirely. It is not recommended that part bags be kept.

Partially fill the spray tank with water and add the appropriate number of bulk bags (these are in pre-measured 2 ha doses). With the agitation system engaged, top up to the correct volume with water.

The material should be kept in suspension at all times by continuous agitation.

To prevent nozzle blockage, strainer and screens should be 50 mesh or coarser.

DO NOT mix, load or apply this product within 20 m of any well, sink hole, intermittent or perennial stream or river.

DO NOT use human flaggers in aerial spraying unless protected by engineering controls such as enclosed cabs.

In plantation forestry, the maximum use rate will be 4.5 kg atrazine active ingredient per ha per year in sandy soils and those defined as highly erodible, and 8 kg atrazine active ingredient per ha per year in clay loams and heavier textured soils.

#### *Pinus radiata*

Ground Application - Apply in 100 to 400 L water per ha with a properly calibrated boom.

Aerial Application - Apply in a minimum of 30 L water per ha.

Use a surfactant/wetting agent for pre plant applications ONLY. eg. A non ionic surfactant such as BS1000 at label rates.

DO NOT add a surfactant/wetting agent in post plant applications or crop injury may occur.

#### **Equipment Cleanup**

Thoroughly clean all application equipment after use to avoid damage to sensitive species, should the application equipment be used subsequently on other areas.

### **CROP SAFETY**

To avoid death or injury to *Pinus radiata* trees DO NOT apply the product in the following situations:

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

### **RESISTANT WEEDS WARNING**

GROUP	C	HERBICIDE
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Macspreed Forest Mix Flexi-Mix Herbicide is a member of the triazines and triazinones group of herbicides. Forest Mix Flexi-Mix has the Inhibitors of photosynthesis at photosystem II mode of action. For weed resistance management Forest Mix Flexi-Mix is a Group C herbicide. Some naturally occurring weed biotypes resistant to Forest Mix Flexi-Mix and other inhibitors of photosynthesis at photosystem II 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 Forest Mix Flexi-Mix or other inhibitors of photosynthesis at photosystem II.

Since the occurrence of resistant weeds is difficult to detect prior to use, Macspreed accepts no responsibility for any losses that may result from the failure of Forest Mix Flex-Mix or any other inhibitor of photosynthesis at photosystem II.

## **PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS**

- DO NOT apply the product on or near desirable trees or other plants, or on areas where their roots may extend. As guidance, this is twice their height or more depending on the species and other conditions.
- DO NOT apply the product where a surface flow of water could wash the chemical into areas where the 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 weather conditions, or from spraying equipment, that may cause drift onto nearby susceptible plants/crops, cropping lands or pastures.

## **PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

- DO NOT contaminate streams, rivers or waterways with the chemical or used containers. This product is very highly toxic to algae and aquatic macrophytes.
- DO NOT use in irrigation channels or in drains where water is discharged onto pastureland or cropland.
- DO NOT empty equipment in the above situations.
- DO NOT apply within 60 m of natural or impounded lakes or agricultural dams, or further if native riverbank vegetation may be damaged (see above for Protection of Native Plants)
- DO NOT apply under meteorological conditions or from equipment which could be expected to cause drift of this product or spray mix into adjacent areas, particularly wetlands, waterbodies or watercourses.

## **PROTECTION OF LIVESTOCK**

Keep stock away from treated areas.

## **PRECAUTION**

Re-entry period: DO NOT enter treated areas without protective clothing until spray has dried.

## **STORAGE AND DISPOSAL**

During storage keep from contact with fertilisers, other pesticides and seeds.

DO NOT re-use container. Store in the closed original container in a dry, cool, well ventilated area out of direct sunlight.

Single rinse before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Puncture and bury empty bags in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty bags and product should not be burnt

## **SAFETY DIRECTIONS**

Harmful if swallowed. Will damage eyes. Will irritate skin. Avoid contact with eyes and skin. DO NOT inhale dust. When opening the container, preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), and a washable hat and elbow-length PVC gloves and face shield or goggles. Do not inhale dust or spray mist. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. 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 (Phone Australia 131126). If in eyes, hold eyes open, flood with water for at least 15 minutes and see a

doctor.

**MATERIAL SAFETY DATA SHEET**

If additional hazard information is required refer to the Material 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 or 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 Number: 62414/12kg/0610

Date of Manufacture:

Batch No: