Product Name: MACSPRED Clomac Herbicide	Page 1 of 22
Description: 1kg - 10 kg - Container Label	Date: 3 rd September 2019

CAUTION

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

MACSPRED Clomac[™] Herbicide

ACTIVE CONSTITUENT: 750 g/kg CLOPYRALID present as the potassium salt



For the control of a wide range of broadleaf weeds in wheat, barley, oats, triticale, canola, pastures, fallow land, forests and industrial/commercial situations as specified in the Directions for Use table.

Important: Read the attached leaflet before using this product

Net Contents: 1kg to 10 kg

2kg - contains 10 x 200g measure packs which it is illegal to sell separately

Macspred Pty Ltd 13 Kennedys Drive, Delacombe, Victoria, 3356 Ph (03) 5335 8522 Fax (03) 5335 8622

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PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray or drift onto nearby susceptible plants/crops, cropping lands or pastures.

DO NOT allow spray drift onto susceptible crops. Susceptible crops include tobacco, chickpeas, cotton, faba beans, field peas, fruit trees, lentils, lupins, lucerne, medics, ornamentals, potatoes, safflower, subclover, tomatoes, vegetables, vines, wattles and white clover.

PROTECTION OF LIVESTOCK

DO NOT graze or cut treated plants for stockfeed for 14 days after application.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Clomac has low toxicity to fish, birds, honey bees, livestock, earthworms and aquatic organisms. **DO NOT** contaminate streams, rivers or waterways with chemical or used container.

STORAGE AND DISPOSAL -cardboard box with plastic liner or foil pack

Store in the closed, original packaging in a dry, cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT store near feedstuffs, fertilisers or seed.

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 500mm 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. Empty bags and product should not be burnt.

HDPE

Store in the closed, original container in a dry, cool, well-ventilated area. **DO NOT** store for prolonged periods in direct sunlight. **DO NOT** store near feedstuffs, fertilisers or seed.

Triple-rinse containers before disposal. Add rinsings to 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 relevant local, state or territory government regulations. Do not burn empty containers or product.

SMALL SPILL MANAGEMENT

Sweep up material and contain in a refuse vessel for disposal in the same manner as for the packaging (see Storage and Disposal Section).

SAFETY DIRECTIONS

Will irritate the eyes. Avoid contact with eyes.

When mixing and loading wear cotton overalls, over normal clothing, buttoned to the neck and wrist, and elbow-length chemical resistant gloves. If applying by hand wear cotton overalls, or equivalent clothing, buttoned to the neck and wrist and elbow-length chemical resistant gloves.

Wash hands after use. After each day's use, wash gloves and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

SAFETY DATA SHEET

For further information, refer to the Safety Data Sheet (SDS), 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 is 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

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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 therefore.

APVMA Approval No: 58844/

Batch Number:

Date of Manufacture:

® Registered Trademark

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CAUTION

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

MACSPRED Clomac[™] Herbicide

ACTIVE CONSTITUENT: 750 g/kg CLOPYRALID present as the potassium salt



For the control of a wide range of broadleaf weeds in wheat, barley, oats, triticale, canola, pastures, fallow land, forests and industrial/commercial situations as specified in the Directions for Use table.

IMPORTANT: READ THIS LEAFLET BEFORE USING THIS PRODUCT

APVMA Approval No: 58844/120369

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DIRECTIONS FOR USE

Restraints:

DO NOT apply to weeds which may be stressed (inactive growth) due to prolonged periods of extreme heat or cold, moisture stress (water logging or drought) or previous herbicide treatment as reduced levels of control may result.

DO NOT apply immediately before sowing susceptible crops, or sow susceptible crops into paddocks treated the previous year with Clomac until after the required plantback period has elapsed (see PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS section).

DO NOT apply this product by air or mister within a Chemical Control Area in Victoria without a valid permit.

DO NOT spray if rain is likely within 3 hours.

DO NOT apply later than the 8 leaf stage of canola or the 1st node stage of winter cereals.

DO NOT compost material from treated plants or crops before reading the PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS section.

See GENERAL INSTRUCTIONS - APPLICATION section for application method details.

IT IS ESSENTIAL to select a rate appropriate to weed size. Best results will be obtained when weeds are actively growing at treatment.

TABLE 1 - FORESTRY - PRE-PLANTING

- Boom and Aerial Application

FORESTS AND PLANTATION TREES INCLUDING EUCALYPTUS SPP., CORYMBIA MACULATA AND PINUS RADIATA			
WEEDS CONTROLLED	WEED GROWTH STAGE	RATE/ha	CRITICAL COMMENTS
Capeweed, Thistles, Volunteer Legumes, Flatweed, Fleabanes	Pre-emergent	800-2400 g	Use the higher rate for extended pre- emergence control (>3 months)
PINUS RADIATA only			
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE RATE/ha	CRITICAL COMMENTS
Silver wattle (suppression)	Pre-emergence from seeds	2400 g	For best results apply Clomac to bare soil just prior to spring rain or when wattles are expected to germinate. Avoid application to heavy trash situations. A high level of suppression may not be achieved where rain does not fall for an extended period after

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TABLE 2 – FORESTRY - POST-PLANTING

- High volume spraying by hand gun

FORESTS AND PLANTATION TREES INCLUDING EUCALYPTUS SPP., CORYMBIA MACULATA AND PINUS RADIATA				
WEEDS CONTROLLED	WEED GROWTH STAGE	RATE/100 L Water	CRITICAL COMMENTS	
Groundsel bush	Young seedlings to mature plants	130 or 200 g	Spray foliage when growth is active. Use the lower rate on young seedlings and the higher rate on plants more than 2 m tall or when growth is slow.	
Ragwort	Actively growing rosettes up to stem elongation and before flowering	80 to 120 g	Spray from the rosette to the shooting stage of growth. Use the higher rate on large multi-crown plants. Addition of a 100% non-ionic surfactant such as BS-1000 at 0.1% v/v is recommended. Add diquat (200 g/L) at 1 L/100 L water plus a surfactant after opening of the first flowers, to prevent the formation of viable seed. Where diquat is added use a directed spray to avoid tree injury.	
Silver wattle	Active growth spring to summer	200 g	For effective control apply when bushes are growing actively. Large trees will not show complete necrosis. HAND GUN: Means high volume NOT low volume knapsack. (See GENERAL INSTRUCTIONS – Application). Spray to the point of run-off to give full coverage of leaves and stems. Add organosilicone surfactant (e.g. Pulse®) at 200 mL/100 L for optimum results.	
Cape Ivy	Any growth stage	1300 g/ha	Application may be made at any time of the year providing foliage is dry at the time. Avoid spraying non-target plants. Low volume application. For application by hand held weed wiper or C.D.A. use at dilution with water of 100 g/L.	

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TABLE 3 – FORESTRY - POST-PLANTING

- Boom and Aerial Application

FORESTS AND I		INCLUDING EUCALY	YPTUS SPP., CORYMBIA MACULATA	
WEEDS CONTROLLED	WEED GROWTH STAGE	RATE/ha	CRITICAL COMMENTS	
Flatweed, Capeweed, Thistles (except Hardhead thistle), Volunteer Legumes, Skeleton weed	Actively growing rosettes, seedlings up to 15 cm diameter or height	200 to 400 g	Cupping of the tip leaves and 'weepy leader' symptoms may occur on certain <i>Eucalyptus spp.</i> and <i>Corymbia maculata</i> and are generally transient symptoms and do not result in longterm injury. These symptoms may be more obvious at rates of 400 g/ha or	
Flatweed, Fleabanes, Capeweed, Thistles including Hardhead thistle, Volunteer Legumes, Skeleton weed	Actively growing rosettes and seedlings greater than 15 cm diameter or height up to stem elongation and before flowering	800 g	higher or where mixtures are used on blue gum, shining gum and spotted gum. Where 'weepy leader' effect is a concern use a directed spray. Use the 200 g rate until 3 months postplanting and the 400 g rate for trees 3 months and older. Use the low rate only under ideal conditions with excellent weed growth and where knockdown control of small weeds is desired. Use the high rate where longer control is required of larger weeds. For the control of annual and certain perennial grasses Clomac can be tankmixed with Halomac 520 Herbicide. See also comments on mixing in Directions for Use. Uptake* Spraying Oil should not be used in tankmixes with Halomac 520 and Clomac on sensitive species such as blue gum, shining gum and spotted gum where rates of Clomac are more than 800 g/ha. Use a 100% non-ionic surfactant such as BS-1000 at 0.1% v/v instead.	
Californian thistle	From early bud to flowering (December to February)		For best control of California thistle use a wetter such as BS-10000 at 0.1% v/v. A second annual application may also be required for best control.	
Ragwort	Small rosettes to larger rosettes up to stem elongation and before flowering	400 or 800 g	Spray from the rosette to the shooting stage of growth. For small rosette seedling plants use the lower rate. For large rosette multi-crown and/or perennial plants use the higher rate. Addition of a 100% non-ionic surfactant such as BS-1000 at 0.1% v/v is recommended. Add diquat (200 g/L) at 1 L/100 L water plus a surfactant after opening of the first flowers, to prevent the formation of viable seed. Where diquat is added use a directed spray to avoid tree injury.	
Sorrel (suppression only)	Actively growing rosettes, seedlings up to 15 cm diameter or height	2400 to 3400 g	Higher rates give better suppression. At rates greater than 2400 g use a directed spray to avoid tree injury.	
PINUS RADIATA and EUCALYPTUS SPP. PLANTATIONS only				

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WEEDS CONTROLLED	WEED GROWTH STAGE	RATE/ha	CRITICAL COMMENTS
Silver wattle	Active growth spring to summer (0.5 to 2 m tall)	2000 g	For effective control apply when bushes are growing actively. Large trees will not show complete necrosis. For boom spraying apply in 150 to 200 L of water/ha. For aerial treatment apply in a minimum of 50 L/ha of water containing 25 to 50% by volume of anti-evaporant oil such as Ulvapron. Mix Clomac and water first and then add Ulvapron. Maintain continuous agitation. At rates of 2800 g and 3400 g for Eucalyptus spp. use a directed spray to avoid tree injury.
	Active growth spring to summer (2 to 4 m tall)	2800 g	
	Active growth spring to summer (4 to 8 m tall)	3400 g	

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TABLE 4 – INDUSTRIAL/COMMERCIAL SITUATIONS including RIGHTS OF WAY - Boom Application only

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/ha	CRITICAL COMMENTS
Capeweed, Thistles, Volunteer Legumes, Flatweed, Fleabanes	Pre-emergent	All	800-2400 g	Use the higher rate for extended pre- emergence control (>3 months)
Flatweed, Capeweed, Thistles (except Hardhead thistle), Volunteer Legumes, Skeleton weed	Actively growing rosettes, seedlings up to 15 cm diameter or height	All	200 to 400 g	Use the low rate only under ideal conditions with excellent weed growth and where knockdown control of small weeds is desired. Use the high rate where longer control is required of larger weeds. For the control of annual and certain perennial grasses Clomac can be
Flatweed, Fleabanes, Capeweed, Thistles including Hardhead thistle, Volunteer Legumes, Skeleton weed	Actively growing rosettes and seedlings greater than 15 cm diameter or height up to stem elongation and before flowering		800 g	tankmixed with Halomac 520 Herbicide. See also comments on mixing in Directions for Use.
Californian thistle	From early bud to flowering (December to February)			For best control of California thistle use a wetter such as BS-10000 at 0.1% v/v. A second annual application may also be required for best control.
Ragwort	Small rosettes to larger rosettes up to stem elongation and before flowering		400 or 800 g	Spray from the rosette to the shooting stage of growth. For small rosette seedling plants use the lower rate. For large rosette multi-crown and/or perennial plants use the higher rate. Addition of a 100% non-ionic surfactant such as BS-1000 at 0.1% v/v is recommended. Add diquat (200 g/L) at 1 L/100 L water plus a surfactant after opening of the first flowers, to prevent the formation of viable seed. Where diquat is added use a directed spray to avoid injury to non-target plants.

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TABLE 5 – INDUSTRIAL/COMMERCIAL SITUATIONS including RIGHTS OF WAY - High volume spraying by hand gun

WEEDS	WEED	STATE	RATE/100 L	CRITICAL COMMENTS
CONTROLLED	GROWTH STAGE		Water	
Groundsel bush	Young seedlings to mature plants	Qld, NSW and ACT only	130 or 200 g	Spray foliage when growth is active. Use the lower rate on young seedlings and the higher rate on plants more than 2 m tall or when growth is slow.
Ragwort	Actively growing rosettes up to stem elongation and before flowering	All	80 to 120 g	Spray from the rosette to the shooting stage of growth. Use the higher rate on large multi-crown plants. Addition of a 100% non-ionic surfactant such as BS-1000 at 0.1% v/v is recommended. Add diquat (200 g/L) at 1 L/100 L water plus a surfactant after opening of the first flowers, to prevent the formation of viable seed. Where diquat is added use a directed spray to avoid injury to non-target plants.
Silver wattle	Active growth spring to summer	NSW, ACT, SA, Tas. and Vic. only	200 g	For effective control apply when bushes are growing actively. Large trees will not show complete necrosis. HAND GUN: Means high volume NOT low volume knapsack. (See GENERAL INSTRUCTIONS – Application). Spray to the point of run-off to give full coverage of leaves and stems. Add organosilicone surfactant (e.g. Pulse®) at 200 mL/100 L for optimum results.
Cape Ivy	Any growth stage	Vic. and Tas. only	1300 g/ha	Application may be made at any time of the year providing foliage is dry at the time. Avoid spraying non-target plants. Low volume application. For application by hand held weed wiper or C.D.A. use at dilution with water of 100 g/L.

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TABLE 6 – PASTURES AND FALLOW LAND – POST-EMERGENCE (ESTABLISHED PERENNIAL GRASS AND SUB CLOVER BASED PASTURES) (Boom spray application if not specified)

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/ha	CRITICAL COMMENTS
Hardhead thistle (Creeping knapweed, Russian knapweed)	Actively growing plants	Vic. and Qld only	Hand gun: 200 g/100 L of water. Boom spray: 800 g or 1600 g/ha	See CRITICAL COMMENTS below for spraying thistles in pastures and fallow land. Only use the 1600 g/ha rate in Qld by boom spray.
St Barnaby's thistle	5 to 8 leaf and 5 to 10 cm diameter	NSW, Vic., Tas., SA and Qld only	20 g or 40 g plus 0.5-1 L/ha 2,4-D amine or 1.5-2.5L/ha 2,4- DB or 1 L/ha Gramoxone or 1-1.5 L/ha Simazine + 1 L/ha 2,4-DB	boom spray.
Thistles including: Nodding, Variegated, Scotch, Spear, Slender, Saffron, St Barnaby's	Rosette stage prior to stem elongation	WA, NSW, Vic., Tas., SA and Qld only	20 g or 28 g plus 1-1.5 L/ha MCPA amine (500 g/L)/ha Drench gun : 20 g/1 L of water. Hand gun : 100 g/100 L of water	
Nodding thistle	Rosettes up to 20 cm in diameter	NSW only	40 g	Apply the spray from September to October. Apply by boom spray only. DO NOT apply to thistles over 20 cm in diameter use Clomac plus MCPA (referred to above) Clover Damage: Damage to white clover will be no greater than damage with MCPA alone and less than damage by Clomac plus MCPA mixtures. Damage to sub-clover may be greater than with MCPA or 2,4-D alone. DO NOT use for spot treatment.
Californian thistle	From early buds to flowering (December to February)	Vic. and Tas. only	Hand gun: 100 g/100 L of water. Boom spray: 800 g/ha	Addition of a wetting agent at label rates is recommended. Retreatment of regrowth in the year following treatment will usually be necessary to achieve a high level of control. NOTE : Clovers and medics will be eliminated for at least one year.
Lucerne	30 to 40 cm high preflowering	Qld, NSW, Vic., SA and WA only	120 g plus 1.5-2 L/ha Roundup CT Max + either 2 L/ha MCPA amine or 2 L/ha 2,4-D amine or 2 L/ha of 2,4-D ester	Treat healthy, actively growing Lucerne in early spring prior to flowering. After grazing or cutting, allow Lucerne to regrow for approx. 4 weeks before treatment. For best control, do not regraze for >2 weeks after application. For complete control of Lucerne in pasture, cultivate approx. 1 month after herbicide treatment.

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- 1. HARDHEAD THISTLES DO NOT USE HAND GUN APPLICATION ON LUCERNE, CLOVERS AND MEDICS AS THEY WILL BE ELIMINATED FOR AT LEAST ONE YEAR. Victoria only: Use the lower rate only on light soils (sand and sandy loam) where a slightly lower degree of control is acceptable. Use the higher rate on all soil types where complete control is required. Addition of a wetting agent at label rates is recommended for treatment of hardhead thistle. Spray between September and April on actively growing plants for effective control. Thorough coverage is essential. Apply in 200 to 250 L of water/ha.
- **2. BOOM SPRAYING:** Use the higher rates of Clomac plus MCPA on multicrowned plants or rosettes larger than 30 cm in diameter. Spraying may be done at any time during active growth, usually in early winter or spring. Avoid spraying during the dormant winter period or at any time when thistles are not actively growing. *Do not spray flowering thistles*.
- **3. PRE-SPRAYING MANAGEMENT:** The pasture should be slightly grazed prior to spraying to reduce clover and grass cover and expose the smaller thistles to the spray. The grazed pasture should be left seven days to allow thistles to freshen prior to treatment.
- **4. POST-TREATMENT MANAGEMENT:** Response of thistles to treatment with the Clomac plus MCPA mixture will be slow compared to the standard treatments with 2,4-D or MCPA. If possible delay grazing of sprayed thistles for 14 days after treatment.
- **5. CLOVER DAMAGE:** Clomac plus MCPA or 2,4-D mixtures can be damaging to clover. The low rate is no more damaging than label rates of 2,4-D or MCPA. Use 20 g/ha mixes when clover is at the 6 trifoliate leaf stage to just prior to flowering. The 28 g/ha mix will reduce the clover component of the pasture for about two months. Use the 28 g/ha mix from 6 trifoliate leaf stage to flowering to minimize clover injury, and when clover has reached the 6 to 8 trifoliate leaf stage and where thistles are large due to early germination. Clover recovery will be quicker during periods of active growth. If clover damage is the major consideration, use the lower Clomac rate to minimize damage.
- **6.** Gramoxone mixes are for Lucerne pasture use only. Simazine mixes are for silver grass control and for Lucerne based pastures only.
- 7. HAND GUN (Spot spray): Treat from rosette stage to early flowering. Thorough spraying is necessary.
- 8. DRENCH GUN: Apply 10 mL to rosette crown. To multicrown plants, apply 10 mL to each crown.

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TABLE 7 – AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS, PASTURES AND RIGHTS-OF-WAY

- Stem Injection Application on Acacia Species

Mix 200 g Clomac with 2.5 L of water and apply the diluted mix as directed below.

WEED GROWTH STAGE	RATE/ha	CRITICAL COMMENTS
Single stems less	1 mL of the	Apply to waist high cuts. See General
than 25 cm	diluted mix per	Instructions - Application section for
diameter at base	cut @ 10 to 13	application method details.
	cm centres	DO NOT exceed the recommended
Multiple stems or	2 mL of the	spacings from the centre of one cut to the
more than 25 cm	diluted mix per	centre of the next cut.
diameter at base	cut @ 10 to 13	Inject each stem of a multistem tree where
	cm centres	possible.

TABLE 8 - WINTER CEREALS AND CANOLA - PRE-SOWING KNOCKDOWN HERBICIDE

WEED	WEED STAGE	RATE g/ha	CRITICAL COMMENTS
Capeweed	Up to 8 leaf and	60	Pre-sowing: This rate should only be
Chickpea (volunteer)	maximum 10 cm	plus	used in tank mixture with formulations of
Faba bean (volunteer)	diameter	a knockdown	paraquat/diquat or glyphosate.
Sub Clover and		herbicide	
Vetch			

TABLE 9 – WINTER CEREALS AND CANOLA – POST-SOWING PRE-EMERGENCE TO 3 LEAF CROP STAGE

WEED	WEED STAGE	RATE g/ha	CRITICAL COMMENTS
Capeweed	Pre-emergence to	60	Post-sowing Pre-emergent to 3 Leaf:
(in cereals only, WA	8 leaf and	plus	This rate should only be used in tank
only)	maximum 10 cm	diuron at 300	mixture with diuron for control of
	diameter	mL/ha	transplants.
Capeweed Faba bean (volunteer) and Sub Clover	Pre-emergence	120-240	Rates of 120-200 g/ha give good suppression (reduced seed set and up to 80% weed control) 240 g/ha is required for good control of capeweed and sub-clover. Apply to moist soil and time treatment for major germination of weeds. Good soil moisture and
			application close to time of weed germination is essential for best control.

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TABLE 10 – WINTER CEREALS – EARLY POST-EMERGENCE 2 LEAF TO 1ST NODE CROP STAGE

WEED	WEED STAGE	RATE g/ha	CRITICAL COMMENTS
Capeweed (WA only)	Cotyledons to 6 leaf and maximum 5 cm diameter	60	Early Post-emergent: Weeds should be young, actively growing and not larger than listed size. Weeds will become stunted and non-competitive soon after application, although final results may not show for some weeks.
Capeweed Soldier thistle St Barnaby's thistle	Up to 10 cm diameter (4 to 8 leaf)	120	
Chickpea Lentils and Safflower (volunteer)	Up to 6 leaf	100	
Faba bean and Lupins (volunteer)	Up to 4 leaf	100	Faba beans and lupins will usually survive, but will be stunted, uncompetitive and generally not set viable seed.
Field pea (volunteer)	Maximum 10 cm high or 6 nodes	60	
Medic and Lucerne seedlings (volunteer)	Up to 8 leaf	60-80	For best control of hairy leaved medics such as snail medic, add 500 mL Uptake* Spraying Oil / 100 L of water.
Sub-clover (volunteer)	Up to 6 leaf		
Vetch (volunteer)	Runners up to 10 cm and maximum 16 leaf	40	

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TABLE 11 – WINTER CEREALS – POST-EMERGENCE TANK MIXTURES - WA, SA, VIC, TAS, NSW only (unless specified)

Weeds should be young and actively growing. Weeds will become stunted and non-competitive soon after application although final results may not show for some weeks. Where a rate range is listed, use low rate mixtures for small weeds to 5 cm across and higher rate mixtures for weeds up to 10 cm across. Use a surfactant such as BS-1000® for granular herbicides or the recommended adjuvant on the partner herbicide label.

WEED	WEED STAGE	RATE g/ha	CRITICAL COMMENTS
Capeweed	Up to 4 leaf,	80-120	Glean mixes – 2 leaf to 1st node
	10 cm diameter	plus	crop stage
		20 g/ha Glean®	
		40	Eclipse/MCPA LVE mixes – 3 leaf
		plus	to 1 st node.
		5-7 g/ha Eclipse®	Where 0.5 L/ha MCPA LVE added
		+ 0.35-0.5 L/ha MCPA	apply from 4-5 leaf to 1 st node crop
		LVE	stage.
		40 plus	Ally/MCPA LVE mixes – 4-5 leaf to 1st node crop stage.
		5 g/ha Ally®	i flode crop stage.
		+ 0.5 L/ha MCPA LVE	
		40	Tigrex mixes – 3 leaf to 1st node
		plus	crop stage, but not on barley or
		0.75 L/ha Tigrex®	Kulin wheat in WA.
Field pea (volunteer)	Up to 6 node,	40	Bromoxynil/MCPA Mixes – 3 leaf to
, ,	10 cm diameter	plus	1 st node crop stage
		5-7 g/ha Eclipse	
Vetch (volunteer)	Up to 4 branch,	+ 0.5-0.7 L/ha	
	10 cm diameter	bromoxynil/MCPA	
		40	Eclipse/MCPA LVE mixes – 3 leaf
		plus	to 1 st node.
		5-7 g/ha Eclipse	Where 0.5 L/ha MCPA LVE added
		+ 0.35-0.5 L/ha MCPA LVE	apply from 4-5 leaf to 1st node crop
		40	stage. Use 30 g/ha only in combination
		plus	with MCPA LVE.
		5 g/ha Ally®	Clomac + MCPA LVE mixes – 4-5
		+ 0.35 L/ha MCPA	leaf to 1 st node crop stage
		LVE	lear to 1 House stop stage
		or	
		30	
		plus	
		0.7 L/ha MCPA LVE	
Chickpea (volunteer)	Up to 4 branch,	40	Bromoxynil/MCPA mixes – 3 leaf to
	10 cm diameter	plus	1 st node crop stage
Taba baan (valuntaan)	lla to 4 ands	5-7 g/ha Eclipse®	
Faba bean (volunteer)	Up to 4 node, 10 cm tall	+ 0.5-0.7 L/ha	
	10 CITI tall	Bromoxynil/MCPA	
Lupin (volunteer)	Up to 6 leaf,	40	Eclipse/MCPA LVE mixes – 3 leaf
·	10 cm tall	plus	to 1 st node.
		5-7 g/ha Eclipse®	Where 0.5 L/ha MCPA LVE added,
Sub-clover (volunteer)	Up to 5 trifoliate,	+ 0.35-0.5 L/ha MCPA	apply from 4-5 leaf to 1st node crop
	5 cm diameter	LVE	stage.
Prickly lettuce	Up to 6 leaf,	40	Ally/MCPA mixes – 4-5 leaf to 1st
	max 10 cm	plus	node crop stage
	diameter	5 g/ha Ally®	
		+ 0.35-0.7 L/ha MCPA	
Medic (volunteer)	Up to 6 leaf,	LVE	
	max 5 cm		
	diameter		

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WEED	WEED STAGE	RATE g/ha	CRITICAL COMMENTS
Prickly lettuce	Up to 6 leaf,	60	Clomac + MCPA LVE mixes – 4-5
	max 10 cm	plus	leaf to 1 st node crop stage
	diameter	0.7 L/ha MCPA LVE	
Thistles including	Rosettes up to 10	20	For thistle control – Clomac rate will
Nodding, Saffron,	max diameter	plus	depend on density, growth stage,
Scotch, Slender,		1 L/ha MCPA amine	climatic conditions and time of
Spear, Stemless,		(500 g/L)	application. Use higher rates for
Variegated		or	best control where high density
		20	and/or large weeds occur.
		plus	MCPA or 2,4-D mixes – apply from
		0.7 L/ha MCPA LVE	4-5 leaf to 1 st node crop stage.
St Barnaby's thistle	4 to 8 leaf	20 - 40	
	5 to 10 cm across	plus	
		0.5-1 L/ha 2,4-D amine	
		or	
		1-1.5 L/ha MCPA	
		amine	
Sowthistle (common)	Young rosettes up	40	Apply to actively growing young
(WA, SA, Vic, Tas,	to 8 true leaves	plus	rosettes. Use Uptake Spraying Oil
NSW and Qld)		0.8 L/ha Tordon 242	at 500 mL/100 L of water for
		or	improved control with Tordon 242
		5 g/ha Ally + 0.7 L/ha	tank-mixes or BS-1000 with
		MCPA LVE	Ally/MCPA LVE tank-mixes. Apply
			tank-mixes from 4-5 leaf to 1 st node
		000	crop stage.
Skeleton weed	5 to 15 cm	200	Weeds should be a minimum 5 cm
(NSW, Vic, SA, WA	rosettes	plus	in diameter and growing actively.
only)		1 L/ha MCPA amine	This rate will give control until
		(500 g/L)	harvest and substantially reduce
			weed numbers the following
			season. Apply from 4-5 leaf to 1st
			node crop stage.

TABLE 12 – CANOLA – POST-EMERGENCE 2 TO 8 LEAF CROP STAGE

WEED	WEED STAGE	RATE g/ha	CRITICAL COMMENTS
Capeweed, Cotula, Saffron thistle, Skeleton weed, Soldier thistle	Up to 10 cm diameter 4 to 8 leaf	120	Weeds should be young and actively growing. Weeds will become stunted and will not be competitive soon after application although final results may not show for some weeks. Skeleton weed will only be controlled until harvest.
Chickpea, Lentils and Safflower (volunteer)	UP to 6 leaf	100	For the control of annual grasses: Clomac is compatible with Verdict* 520 Herbicide. Uptake Spraying Oil should be added to this tank-mix for best grass control. Clomac + Verdict 520 + Uptake Spraying Oil is compatible and selective to canola.
Faba beans and Lupins (volunteer)	Up to 4 leaf		Faba beans and lupins will usually survive, but will be stunted, uncompetitive and generally not set
Field peas (volunteer)	Maximum 10 cm high or 6 nodes	60	viable seed.
Medics and Lucerne seedlings (volunteer) Sub clover (volunteer)	Up to 8 leaf Up to 6 leaf		For best control of hair leaved medics such as snail medic, add 500 mL Uptake Spraying Oil / 100 L water.
Vetch (volunteer)	Runners to 10 cm max, 16 leaf	40	Will not control woolly pod vetch.

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WEED	WEED STAGE	RATE g/ha	CRITICAL COMMENTS
St Barnaby's thistle	4 to 8 leaf,	60 - 120	Clomac rate will depend on weed
	5 to 10 cm		density, growth stage, climatic
	diameter		conditions and time of application. Use
			higher rates for best control where high
			density and/or large weeds occur.

TABLE 13 - HERBICIDE TOLERANT CANOLA - POST-EMERGENCE 2 TO 8 LEAF CROP STAGE

WEED	WEED STAGE	RATE g/ha	CRITICAL COMMENTS
Clearfield Canola			•
Cotula (common) Capeweed)	Up to 6 leaf	60 plus 40 g OnDuty*	Where capeweed is a significant component of the weed spectrum, a tank-mix with Clomac may be needed post-emergence. DO NOT exceed this rate as reduced control of grass weeds may occur.
Triazine Tolerant Canola			
Capeweed, Lupins (volunteer) Saffron thistle, Skeleton weed, Soldier thistle and weeds from conventional canola	Up to 6 leaf	120	Clomac is compatible with atrazine and simazine for use in triazine tolerant canola. Uptake Spraying Oil at 500 mL/100 L of water should be added to this mix for best grass and broadleaf weed control. For the control of annual grass weeds Clomac + atrazine + Verdict 520 + Uptake Spraying Oil are compatible and selective to triazine tolerant canola.

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

WITHHOLDING PERIODS PASTURES, FALLOW LAND and INDUSTRIAL

/COMMERCIAL SITUATIONS: DO NOT GRAZE OR CUT FOR STOCK FOOD

FOR 7 DAYS AFTER APPLICATION.

CEREALS and CANOLA:

DO NOT GRAZE OR CUT TREATED CEREALS

FOR STOCK FOOD FOR 7 DAYS AFTER

APPLICATION.

FORESTS: NONE REQUIRED WHEN USED AS DIRECTED

GENERAL INSTRUCTIONS

MIXING:

Clomac granules are highly soluble in water and will dissolve rapidly once added to fast moving water. Due to the number of different types of boom sprays, and their differing methods and degrees of agitation, Macspred recommends the following procedures to ensure the granules completely dissolve.

Maintain agitation at all times, including during mixing as well as spraying.

1. Spray rigs that topfill

For spray rigs that fill through hoses into the top of the tank, **quarter fill** the tank, add the Clomac, then continue to fill the tank.

2. Spray rigs with premix hoppers

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For spray rigs that have a drop down chemicals induction hopper, **three-quarter fill this hopper** with water and have the rinsing sprinkler operating. Add the Clomac and when dissolved, transfer this batch into the quarter filled main tank. Continue to rinse the hopper until the entire product has been washed through.

3. Spray rigs with limited bypass agitation

For spray rigs that have limited bypass agitation, then as for most granulated formulations, pre-dissolve the Clomac in a bucket before adding to the main tank. Add Clomac while stirring until the granules have dissolved.

4. Tankmixes:

The following order should be followed:

- 1. Quarter fill the spray tank maintaining agitation
- 2. Add Clomac granules, using the mixing procedure above
- 3. Add Halomac 520 if it is to be used in the tankmix.
- 4. Add water to **half** fill the spray tank
- 5. Add wettable powders, water dispersible granules or suspension concentrates
- 6. Add other emulsifiable concentrates including other selective grass herbicides
- 7. If Uptake * Spraying Oil is to be used then add this when spray tank is **half** full.
- 8. If other adjuvants or a wetting agent is to be used then add these according to their label
- 9. Add water to bring to the final spray volume

Only mix sufficient spray solution for immediate use and avoid storing.

COMPATIBILITY

Clomac is compatible with the following:

BROADLEAF HERBICIDES: Brushoff®, glyphosate, oxyfluorfen, paraquat, simazine, Spray-Seed®, sulfometuron methyl, terbacil/sulfometuron methyl

GRASS HERBICIDES: Halomac 520 Herbicide

OILS/WETTERS: Uptake* Spraying Oil, Ulvapron®, and Pulse®

APPLICATION

DO NOT apply this product by air or mister within a Chemical Control Area in Victoria unless a permit has been issued by the Department of Primary Industries.

BOOM SPRAYING PLANTATION TREES, INDUSTRIAL/COMMERCIAL SITUATIONS, CROPS AND PASTURES:

Apply Clomac in sufficient water to obtain good coverage. It should be applied by an accurately calibrated ground rig or aircraft, delivering 200 to 300 micron droplets and not less than 50 L/ha water volume for boom sprayers or not less than 20 L/ha for aerial applications. Do not apply by aircraft in industrial/commercial situations.

Hardhead thistle - Use a spray volume of 200 to 250 L/ha of water. Silver wattle – Use a spray volume of 150 to 200 L/ha of water by ground boom spray and a minimum spray volume of 50 L/ha by aircraft.

HIGH VOLUME HAND GUN

Apply the recommended mix to give full coverage of leaves and stems through a No. 6-8 tip at 700 to 1500 kPa. Spray volume for effective coverage of dense 2 m high silver wattle should be 30 to 40 L of spray per 100 m² (10 m x 10 m) of infestation. For larger areas an equivalent would be 3000 to 4000 L per infested hectare.

STEM INJECTION

To make a stem injection pocket at waist height, use a ¾ length axe with a blade width of 5 to 7 cm. The axe cut must be through the bark and deep enough to place all the chemical in contact with the sap wood.

The chemical must be applied immediately after the injection pocket is made. Apply chemical with a Phillips 5 mL vaccinator fitted with a tree injector kit which can be accurately calibrated. Set vaccinator to deliver 1 mL of the diluted mix.

When treating regrowth less than the width of the axe, ensure chemical does not run out the sides of the cut, as reduced control will result. This can be overcome by using the corner of the axe to make the pocket in the stem.

CLEANING SPRAY EQUIPMENT

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Rinse water should be discharged onto a designated disposal area or, if this is unavailable, onto unused land away from desirable plants and watercourses.

PARTIAL CLEANING (before spraying other labelled or tolerant crops)

After using Clomac empty the tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose. Quarter fill the tank with clean water and circulate through the pump, line, hoses and nozzles. Drain and repeat procedure twice.

COMPLETE CLEANING (before spraying susceptible crops)

After using Clomac empty the tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose. Quarter fill the tank with clean water and circulate as above then drain.

Quarter fill the tank again and add an alkali detergent (e.g. Surf®, Omo®, Drive®) at 500 mL/100 L water or 500

g/100 L water and circulate throughout the system for at least 15 minutes.

Drain, remove filters and nozzles and clean separately. Rinse inside the tank thoroughly using a pressure hose and flush system with clean water.

RESISTANT WEEDS WARNING



Clomac Herbicide is a member of the pyridines group of herbicides. The product has the disrupters of plant cell growth mode of action. For weed resistance management, the product is a Group I herbicide. Some naturally occurring weed biotypes resistant to the product and other Group I 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 I herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Macspred Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant weeds. Strategies to minimize the risk of herbicide resistance are available. Contact your farm chemical supplier, consultant, local Department of Agriculture, or local Macspred representative.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray or drift onto nearby susceptible plants/crops, cropping lands or pastures.

DO NOT allow spray drift onto susceptible crops. Susceptible crops include tobacco, chickpeas, cotton, faba beans, field peas, fruit trees, lentils, lupins, lucerne, medics, ornamentals, potatoes, safflower, subclover, tomatoes, vegetables, vines, wattles and white clover.

Composts and Mulches – Do not apply Clomac herbicide to crops or pastures that will be used for the production of compost or mulches or mushroom substrate. Such compost or mulch made from plant material treated with Clomac may cause damage to susceptible crops and plants.

Susceptible crops and plants include, but are not limited to chickpeas, clover, cotton, faba beans, field peas, fruit trees, lentils, lupins, lucerne, medics, ornamentals, potatoes, safflower, tomatoes, vegetables, grape and kiwifruit vines, vetches, and wattles. Field peas, faba beans, lentils and vetches are particularly susceptible and should not be sown the season following an application of Clomac at 200 g/ha

Where Clomac residue carry over from use rates of less than 200 g/ha is suspected and susceptible crops are to be planted, test the treated area as follows:

- Field bioassay where rain allows, plant a small area of the susceptible crop 4 to 6 weeks before
 desired planting date and take note of any symptoms of injury. If any herbicide symptoms are
 observed, only plant either canola or a cereal (see recommendation for northern and southern
 Australia below).
- Pot bioassay where not practical to do field bioassay, plant a small number of seeds of the susceptible crop into pots containing soil from the treated field. Do this 4 to 6 weeks before desired planting date. If any herbicide symptoms are observed, only plant either canola or a cereal (see recommendation for northern and southern Australia below).

Stubble from treated crops– ensure that harvesters effectively spread crop straw and do not leave a heavy 'header trail' after harvest. Burn (if legal in the area), bale and remove, slash or incorporate stubble as soon as practical after harvest and as long as possible before planting next year to allow microbial breakdown of any residues in straw. Heavy stubble loads may carry more residue into the following season. Where heavy stubble burdens and/or non-wetting soils exist and less than recommended rain amounts have occurred from application to planting the susceptible crop (see below), only plant a winter or summer cereal or canola.

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Planting crops following use of Clomac Herbicide in previous crop – planting crops 'dry' without significant rain (see below) in the 'autumn break' increases the risk of injury to susceptible crops. This practice should be avoided, or only plant a winter or irrigated summer cereal crop or canola. In severely dry conditions, where less than 30% of average annual rainfall and/or less than the minimum rain (see below) has fallen between application and planting the next year, only plant a winter or irrigated summer cereal or canola.

PLANTBACK PERIODS FOR SOUTHERN AUSTRALIAN WINTER DOMINANT RAINFALL AREAS (Sth NSW, VIC, SA, WA):

Required rainfall – A minimum 25 mm rain event in the post harvest summer to autumn period, with a subsequent extended period of at least 1 week where the top 10 cm of the soil stays moist is required to enable breakdown of soil residues. Fastest residue breakdown will occur under good soil moisture and warm conditions, which promote microbial activity. Where significant rain (>25 mm) has fallen in summer to autumn, with soil wetting for at least one week, the following plantback periods apply:

Following Crops	Rate (g/ha) Used Previously	Plantback Interval
Clover, chickpea, faba bean,	Up to 120	9 months
field pea, lentils, lupins, medics	> 120 – 200	12 months
and vetch	>200	24 months
Barley, canola, wheat, oats	All label rates	1 week

PLANTBACK PERIODS FOR NORTHERN AUSTRALIAN SUMMER DOMINANT RAINFALL AREAS (Nth NSW, QLD):

Required rainfall before plantback:

If planting susceptible summer crops - at least 100 mm rain

If planting susceptible winter crops - at least 150 mm rain

This rain or irrigation should wet the soil for extended periods (at least one week); this is essential for breakdown of soil residues prior to planting susceptible crops.

If planting a cereal or canola crop - at least 50 mm of rain or irrigation is required to enable soil wetting for at least one week. Where these requirements have been met the following plantback periods apply:

Following Crops	Rate (g/ha) and Plantback Interval	
	Up to 30 g/ha	>30 – 120 g/ha
Chickpea, cotton, soybean, sunflower	3 months	6 months
Lucerne	9 months	9 months
Maize, sorghum	1 week	2 weeks
Wheat, barley, oats, canola	1 week	1 week

Note: Susceptible crops should not be sown for at least 2 years where Clomac Herbicide at more than 120 g/ha has been used in northern Australia.

PROTECTION OF LIVESTOCK

DO NOT graze or cut treated plants for stockfeed for 14 days after application.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Clomac has low toxicity to fish, birds, honey bees, livestock, earthworms and aquatic organisms. **DO NOT** contaminate streams, rivers or waterways with chemical or used container.

STORAGE AND DISPOSAL - cardboard box with plastic liner or foil

Store in the closed, original packaging in a dry, cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT store near feedstuffs, fertilisers or seed. 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 500mm 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. Empty bags and product should not be burnt.

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HDPE

Store in the closed, original container in a dry, cool, well-ventilated area. **DO NOT** store for prolonged periods in direct sunlight. **DO NOT** store near feedstuffs, fertilisers or seed.

Triple-rinse containers before disposal. Add rinsings to 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 relevant local, state or territory government regulations. Do not burn empty containers or product.

SMALL SPILL MANAGEMENT

Sweep up material and contain in a refuse vessel for disposal in the same manner as for the packaging (see Storage and Disposal Section).

SAFETY DIRECTIONS

Will irritate the eyes. Avoid contact with eyes.

When mixing and loading wear cotton overalls, over normal clothing, buttoned to the neck and wrist, and elbow-length chemical resistant gloves. If applying by hand wear cotton overalls, or equivalent clothing, buttoned to the neck and wrist and elbow-length chemical resistant gloves.

Wash hands after use. After each day's use, wash gloves and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

SAFETY DATA SHEET

For further information, refer to the Safety Data Sheet (SDS), 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 is 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 therefore.

Batch Number:	Date of Manufacture:

- ® Registered Trademark
- * Trademark of Dow AgroSciences

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Description: measure pack	Date: 9th May 2019

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

MACSPRED Clomac Herbicide

ACTIVE CONSTITUENT: 750 g/kg CLOPYRALID present as the potassium salt

NOT TO BE SOLD SEPARATELY
BEFORE USE READ ALL DIRECTIONS ON THE OUTER PACK.
WATER SOLUBLE PACKAGING. KEEP DRY.

Net contents of this water soluble bag: 200 g

APVMA Approval No.: 58844/120369