

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**DIFEN OPTIONS
SELECTIVE HERBICIDE**

Active Constituent: 500g/L DIFLUFENICAN

GROUP	F	HERBICIDE
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For the control of certain weeds in clover-based Pasture, Field-Peas, Lentils, Lupins and Oilseed Poppy as specified in the Directions For Use table.

IMPORTANT: READ THE ATTACHED BOOKLET BEFORE USE.

Contents: 1/5/10/20/110 Litres

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DIFEN OPTIONS SELECTIVE HERBICIDE

Active Constituent: 500g/L DIFLUFENICAN

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers. 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.

STORAGE AND DISPOSAL

Keep out of reach of children. Store in the closed, original container in a dry, cool, well-ventilated area, out of direct sunlight. Triple or preferably pressure 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Refillable Containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Avoid contact with eyes and skin. Wash hands after use.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (telephone 13 11 26).

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet available from ChemAg Pty Ltd.

CONDITIONS OF SALE

“ChemAg Pty Ltd (“ChemAg”) shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever of howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on ChemAg’s skill or judgement in purchasing or using the same and every person dealing with the product does at his own risk absolutely. No representative of ChemAg has any authority to add to or alter these conditions”.

NRA Approval No: 55216 / 0202

Batch Number:

Date of Manufacture:

[DRUM MUSTER LOGO]

BAR
CODE

IN A TRANSPORT EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE

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**READ THIS INFORMATION
THOROUGHLY BEFORE USING THIS PRODUCT**

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DIRECTIONS FOR USE**Restrains**

DO NOT apply if crop or weeds are stressed due to dry or excessively moist conditions.

DO NOT apply to crops under stress due to pre-emergence herbicide, root disease, insect damage, nutrient deficiency, excessively moist or dry conditions or extremes of pH.

DO NOT apply to frost affected crops or if frosts are imminent.

DO NOT apply if heavy rain is expected within 4 hours.

CROP	WEEDS CONTROLLED	STATE	WEED STAGE	RATE	CRITICAL COMMENTS	
Clover – based pasture, field peas, lentils, lupins.	Wild Radish (<i>Raphanus raphanistrum</i>)	WA Only	Up to 2 leaf stage and not more than 60mm in diameter	100 mL/ha	<p>CROP STAGE Sow crop evenly to a depth of 20 to 50mm.</p> <p>CLOVER BASED PASTURE: Apply post-emergence, not before the 3rd trifoliate leaf stage. Warning: Some species and varieties of clover may be more sensitive than others. Refer to legume tolerance table in the general instructions. DO NOT apply to medics or yellow serradella.</p> <p>FIELD PEAS: Apply post-emergence after the third node stage and before the start of flowering. Warning: Field peas grown on high pH soils in the presence of free lime may be less tolerant to Difen Options.</p> <p>LENTILS: Apply post-emergence after the third node stage of the crop. Warning: Some lentil varieties may be more sensitive than others. DO NOT apply to Northfield variety, Avoid spray overlap.</p> <p>LUPINS: Post-emergence of Crop: Apply post-emergence from the 2 leaf to the 6 leaf stage of crop (40 to 100mm high). Post-sowing, Pre-emergence of Crop (Not WA): Apply in a tank mix with the recommended rate of post-sowing emergence treatment of simazine. (Difen Options should not be incorporated).</p> <p>APPLICATION AND WEED CONTROL: Apply when weeds are actively growing. For optimum results apply 4 to 6 weeks post-sowing. Application beyond 8 weeks post-sowing may result in reduced levels of weed control. In most situations the rate specified for each weed size will give satisfactory control. Under certain conditions such as:</p> <ul style="list-style-type: none"> • High crop and weed density. • Late season germination's. • Abnormal weed growth (including early flowering): higher rates of product (up to the maximum rate of application specified for that weed) may be required. 	
			Up to 4 leaf stage and not more than 120mm in diameter	150 mL/ha		
			Up to 6 leaf stage and not more than 180mm in diameter	200 mL/ha		
		NSW, ACT, Vic, Tas, SA only	Up to 4 leaf stage and not more than 120mm in diameter			
	Hedge mustard (<i>Sisymbrium officinale</i>), Indian hedge mustard (<i>Sisymbrium orientale</i>), Wild turnip (<i>Brassica tournefortii</i>)	WA only	NSW, Vic, Tas ACT only	Up to 2 leaf stage and not more than 60mm in diameter		100 mL/ha
				Up to 4 leaf stage and not more than 120mm in diameter		150 mL/ha
				Up to 6 leaf stage and not more than 180mm in diameter		200 mL/ha
Turnip weed (<i>Rapistrum rugosum</i>)		NSW, Vic, Tas, SA, WA ACT only	Up to 4 leaf stage and not more than 120mm in diameter			
Charlock (Wild mustard, <i>Sinapis arvensis</i>), Deadnettle (<i>Lamium amplexicaule</i>)		NSW, Vic, Tas, SA, ACT only				
Prickly lettuce (<i>Lactuca serriola</i>)			Up to 2 leaf stage and not more than 60mm in diameter			
Pheasants eye (<i>Adonis microcarpa</i>)		SA only				

CONTINUED OVERLEAF

CROP	WEEDS CONTROLLED	STATE	WEED STAGE	RATE	CRITICAL COMMENTS		
Field Peas	Prickly lettuce (<i>Lactuca serriola</i>)	NSW, Vic, Tas, SA, ACT only	4 leaf	125 mL/ha plus 125 mL/ha MCPA amine (500g/L)	CONTINUED FROM PREVIOUS PAGE Difen Options will not effectively control: <ul style="list-style-type: none"> • Regrowth of suppressed weeds. • Transplanted weeds. • Regrowth from rhizomes or roots. • Weeds growing under stress from previous herbicide applications 		
			6 leaf	150 mL/ha plus 150 mL/ha MCPA amine (500g/L)			
	Charlock (Wild mustard, <i>Sinapis arvensis</i>)		4 leaf	125 mL/ha plus 125 mL/ha MCPA amine (500g/L)			
	6-8 leaf		150 mL/ha plus 150 mL/ha MCPA amine (500g/L)				
Suppression of the Following Weeds							
Clover-based pasture, field peas, lentils, lupins	Capeweed (<i>Arctotheca calendula</i>), Crassula (<i>Crassula</i> spp.), Corn Gromwell (<i>Buglossoides arvense</i>), Marshmallow (<i>Malva parviflora</i>), Shepherd's purse (<i>Capsella bursa-pastoris</i>)	NSW, Vic, Tas, SA, WA, ACT only	Up to 4 leaf stage not more than 120mm in diameter	200 mL/ha	The level of effective residual control may be reduced where: <ul style="list-style-type: none"> • Rates lower than 200 mL/ha are used. • Dry conditions prevail. • Poor coverage of the soil surface is achieved. • Crop is planted in non-wetting sand. • Soils have a high content of clay or organic matter. Where weeds are present at application, good spray coverage of the weeds is important. Apply before weeds are obscured by the crop canopy. Weed control may be reduced in areas where trash or burnt straw from previous harvest is dense, such as in header trails. Best results will be obtained if good soil moisture exists at and after application.		
	Chickweed (<i>Stellaria media</i>), Hyssop loosestrife (<i>Lythrum hyssopifolia</i>), Mouse-eared chickweed (<i>Cerastium glomeratum</i>), Night-scented stock (<i>Matthiola longipetala</i>), Skeleton weed (<i>Chondrilla juncea</i>), Speedwell (<i>Veronica hederifolia</i>)					NSW, Vic, Tas, SA, ACT only	
	Amsinckia (<i>Amsinckia</i> spp), Wireweed (<i>Polygonum aviculare</i>)	NSW, ACT, Vic, Tas, SA only					
	Paterson's Curse (salvation jane) (<i>Echium plantagineum</i>), Rough poppy (<i>Papaver hybridum</i>)						NSW, Vic, SA, ACT only
	Sorrel (<i>Rumex acetosella</i>), Toad rush (<i>Juncus bufonius</i>)						
	Stinging nettle (<i>Urtica urens</i>)	NSW, ACT only					Cotyledon stage

CROP	WEEDS CONTROLLED	STATE	WEED STAGE	RATE	CRITICAL COMMENTS
Oilseed poppy	Charlock (<i>Sinapis arvensis</i>), Hedge mustard (<i>Sisymbrium officinale</i>), Indian hedge mustard (<i>Sisymbrium orientale</i>), Wild radish (<i>Raphanus raphanistrum</i>), Wild turnip (<i>Brassica tournefortii</i>)	Tas only	Early post-emergence up to the 4 leaf stage and not more than 120mm in diameter	150mL/ha (4-6 leaf crop stage) and/or 200mL/ha (6-10 leaf crop stage)	<p>CROP STAGE Difen Options may be mixed with Reglone* or Asulox* based on recommendations from poppy contracting companies. DO NOT use in mixtures with Tramat*.</p> <p>APPLICATION AND WEED CONTROL See comments on clover based pasture, field peas, lentils and lupins.</p>

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

WITHHOLDING PERIOD NOT REQUIRED WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS

For use as an early post-emergence spray in clover-based pasture, field peas, lentils and lupins. Difen Options may also be used as a post sowing pre-emergence on lupins in New South Wales, Australian Capital Territory, Victoria, South Australia and Tasmania.

This product provides both contact and residual activity. Residual activity can be expected for up to 8 weeks after application under favourable growing conditions.

This product is taken up by the shoots of germinating seeds and seedlings. Susceptible weeds germinate but show immediate chlorosis followed by a mauve-pink discolouration. The chlorosis spreads with the aerial growth and the plants become necrotic and die back.

After application, some transient crop discolouration may occur. In lentils and lupins, this usually appears as yellow or white banding on the leaves, while in clover and field peas, white/pink coloration of the leaf veins and tips may occur. Some crop height reduction may also occur.

Provided the crop is not under stress from pre-emergent herbicide, disease, insect damage, nutrient deficiency, frost, extremes of pH, dry or excessively moist conditions, the development of the crop and all subsequent growth will not be affected.

Some pre-emergence herbicides, such as atrazine, can cause stress to certain crops resulting in an increase in crop damage when using the product. Field peas are particularly sensitive.

Clover Tolerance Table

VARIETY	EFFECT ON VEGETATIVE GROWTH
Arrowleaf (Zulu)	Moderate
Balansa (Paradana)	Moderate
Persian (Kyambro)	Minimal
Strawberry (Palestine)	Moderate
Subterranean (Clare)	Moderate
Subterranean (June)	Moderate
Subterranean (Karridale)	Moderate
Subterranean (Larissa)	Moderate
Subterranean (Mt. Barker)	Moderate
Subterranean (Seaton Park)	Minimal
Subterranean (Trikkala)	Minimal
Subterranean (Woogenellup)	Moderate
White (Haifa)	Moderate
Reduction in growth – Minimal (0-20%), Moderate (Moderate 20-50%)	

The following varieties of subterranean clover have been tested for effects on seed yield: Seaton Park, Trikkala and Woogenellup. Some reduction in seed yield may occur with cv. Trikkala.

Subsequent Crop Tolerance

To reduce the effect on subsequent susceptible crops (e.g. canola) ensure thorough cultivation of soil prior to the sowing of these crops.

Mixing

Stir product or invert container several times before use as settling may occur after storage for some weeks. To ensure even mixing, half fill the spray tank with clean water and add the required amount of product. Agitate thoroughly then add the remainder of the water. Agitate thoroughly while carrying out spray operations. Reseal part-used container immediately after use.

Application

Ground

A minimum water rate of 50 L/ha should be used, however, for optimum results water rates of 70-100 L/ha are recommended. Increase the water volume where weed infestation is heavy or the crop cover is dense. Complete coverage of weeds is essential. Higher water volumes (up to 100L/ha) will ensure improved activity of the product on the weeds but may increase the symptoms of crop damage.

The following settings are examples that will ensure excellent coverage of exposed weeds:

WATER RATE	50 L/ha	75 L/ha	75 L/ha
NOZZLE	Hardi No. 10 or equivalent	Hardi No. 12 or equivalent	Hardi No. 14 or equivalent
SPEED	10 kph	10 kph	12 kph
PRESSURE	240 kPa (2.4 bar)	220 kPa (2.2 bar)	210 kPa (2.1 bar)

Compatibility

Difen Options is physically compatible with most currently registered grass herbicides as two-way tank mixtures.

DIFEN OPTIONS	COMPATIBLE PRODUCT
Up to 150 mL	Simazine (500g/L product) up to 1.0 L/ha
All Rates	Delta-Duo EC, dimethoate, Dictate 100, Hallmark* 50EC, , Le-Mat* 290 SC, Lexone*, Sencor*, Talstar* and Targa*

Warning

For tank-mixtures with grass herbicides, use the recommended rates for both herbicides as well as the surfactant recommendations of the grass herbicide. Read the label for the grass herbicide before mixing and using the tank mixtures. DO NOT use crop oils with Difen Options or Difen Options / Grass Herbicide tank-mixtures. Applications to lupins and field peas under stressed conditions may cause significant damage to the crop. Tank mixtures with simazine should be applied post-emergence to lupin crops only. Increased crop effects may be experienced with the tank mix. DO NOT apply tank-mixtures to clover. When tank mixing Difen Options and Targa*, use a surfactant only. Mixtures of Difen Options and Verdict* applied to lupins or field peas can cause damage that may result in yield losses. Consult your local ChemAg representative or the relevant grass herbicide manufacturer for advice on application and timing of tank-mixtures. As formulations of other manufacturer's products are beyond the control of ChemAg Pty Ltd, all mixtures should be tested prior to mixing commercial quantities.

Resistant Weeds Warning

GROUP	F	HERBICIDE
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Difen Options is a member of the nicotinanilide group of herbicides and acts by inhibiting carotenoid biosynthesis. For weed resistance management Difen Options is a Group F Herbicide.

Some naturally occurring weed biotypes resistant to Difen Options Herbicide and other Group F Herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if Difen Options Herbicide or other Group F herbicides are used repeatedly. These resistant weeds will not be controlled by Difen Options Herbicide or other Group F Herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, ChemAg Pty Ltd accepts no liability for any losses that may result from the failure of Difen Options Herbicide to control resistant weeds.

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