

**READ SAFETY DIRECTIONS BEFORE OPENING OR USING**



# Diflufenican 500

**HERBICIDE**

**ACTIVE CONSTITUENT: 500 g/L DIFLUFENICAN**

<b>GROUP</b>	<b>F</b>	<b>HERBICIDE</b>
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*For control of certain weeds in Clover-based Pasture, Field Peas, Lentils, Lupins and Oilseed Poppy as specified in the Directions for Use*

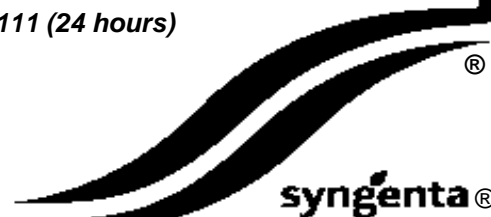
**IMPORTANT: Read the attached leaflet before use**

## 5 LITRES

**Syngenta Crop Protection Pty Limited**  
Level 1, 2-4 Lyon Park Road, North Ryde NSW 2113

***In a transport emergency dial 000, Police or Fire Brigade***  
***For specialist advice in an emergency only, call 1800 033 111 (24 hours)***

**APVMA Approval No: 61647/5/0207**  
**Item number**  
**UN-Free**



**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 not 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 containers and product should not be burnt.

**SAFETY DIRECTIONS**

**Avoid contact the eyes and skin. Wash hands after use.**

**FIRST AID**

**If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131 126.**

**MATERIAL SAFETY DATA SHEET**

If additional hazard information is required refer to the Material Safety Data Sheet. For a copy visit our website at [www.syngenta.com.au](http://www.syngenta.com.au)

**MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY**

Syngenta has no control over storage, handling and manner of use of this product. Where this material is not stored, handled or used correctly and in accordance with directions, no express or implied representations or warranties concerning this product (other than non-excludable statutory warranties) will apply. Syngenta accepts no liability for any loss or damage arising from incorrect storage, handling or use.

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Batch No	
Date of Manufacture	

Barcode

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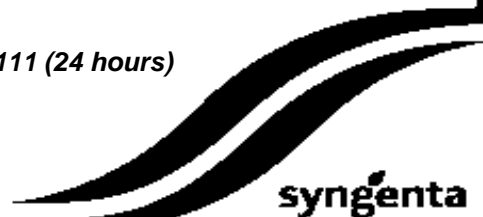
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## DIRECTIONS FOR USE

### Restraints

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

DO NOT apply to crops or weeds 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	Weed	State	Weed Stage	Rate	Critical Comments		
<b>Clover-based Pasture, Field Peas, Lentils, Lupins</b>	Wild Radish ( <i>Raphanus raphanistrum</i> )	WA only	Up to 2 leaf stage and not more than 60 mm in diameter	100 mL/ha	<p>Sow crop evenly to a depth of at least 20 mm.</p> <p><b>Crop stage</b> <b>Clover-based pasture:</b> Apply post-emergence, not before the third trifoliolate leaf stage. Warning: Some species and varieties of clover may be more sensitive than others. Refer to legume tolerance table in General Instructions. DO NOT apply to medics or yellow serradella.</p> <p><b>Field peas:</b> Apply early 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 INNOVA DIFLUFENICAN.</p> <p><b>Lentils:</b> Apply early 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><b>Lupins:</b> Post-emergence of crop: Apply post-emergence from the 2 leaf stage to the 6 leaf stage of the crop (40 to 100 mm high). Post-sowing, Pre-emergence of crop (not WA): Apply in a tank mix with the recommended rate of post-sowing pre-emergence treatment of simazine. (INNOVA DIFLUFENICAN should not be incorporated)</p> <p><b>Application and weed control</b> 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: * high crop and weed density, * late season germinations, * abnormal weed growth (including early flowering); higher rates of product (up to the maximum rate of application specified for that weed) may be required.</p>		
			Up to 4 leaf stage and not more than 120 mm in diameter	150 mL/ha			
			Up to 6 leaf stage and not more than 180 mm in diameter	200 mL/ha			
	Hedge Mustard ( <i>Sisymbrium officinale</i> ), Indian Hedge Mustard ( <i>Sisymbrium orientale</i> ), Wild Turnip ( <i>Brassica tournefortii</i> )	NSW, Vic, Tas, SA only	WA only	Up to 2 leaf stage and not more than 60 mm in diameter		100 mL/ha	
				Up to 4 leaf stage and not more than 120 mm in diameter		150 mL/ha	
				Up to 6 leaf stage and not more than 180 mm in diameter		200 mL/ha	
	Turnip Weed ( <i>Rapistrum rugosum</i> )	NSW, Vic, Tas, SA only	WA only	Up to 4 leaf stage and not more than 120 mm in diameter		200 mL/ha	
	Charlock (Wild Mustard) ( <i>Sinapis arvensis</i> ), Deadnettle ( <i>Lamium amplexicaule</i> )			NSW, Vic, Tas, SA only			Up to 2 leaf stage and not more than 60 mm in diameter
	Pheasants Eye ( <i>Adonis microcarpa</i> )	SA only					

(CONTINUED NEXT PAGE)

Crop	Weed	State	Weed Stage	Rate	Critical Comments
<b>Clover-based Pasture, Field Peas, Lentils, Lupins</b>	<b>Suppression of the following weeds</b>				<p style="text-align: center;">(CONTINUED FROM PREVIOUS PAGE)</p> <p>INNOVA DIFLUFENICAN will not effectively control:</p> <ul style="list-style-type: none"> <li>• Regrowth of suppressed weeds</li> <li>• Transplanted weeds</li> <li>• Regrowth from rhizomes or roots</li> <li>• Weeds growing under stress from previous herbicide applications</li> </ul> <p>The level of effective residual control may be reduced where:</p> <ul style="list-style-type: none"> <li>• Rates lower than 200 mL/ha are used</li> <li>• Dry conditions prevail</li> <li>• Poor coverage of the soil surface is achieved</li> <li>• Crops planted in non-wetting sand</li> <li>• Soils have a high content of clay or organic</li> </ul> <p>Where weeds are present at application, good spray coverage of 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.</p>
	Capeweed ( <i>Arctotheca calendula</i> ), Crassula ( <i>Crassula</i> spp), Corn Gromwell ( <i>Buglossoides arvensis</i> ), Marshmallow ( <i>Malva parviflora</i> ), Shepherd's Purse ( <i>Capsella bursa-pastoris</i> )	NSW, Vic, Tas, SA, WA only	Up to 4 leaf stage and not more than 120 mm in diameter	200 mL/ha	
	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 only			
	Amsinckia ( <i>Amsinckia</i> spp), Wireweed ( <i>Polygonum aviculare</i> )	NSW, Vic, Tas, SA only	Up to 2 leaf stage and not more than 60 mm in diameter		
	Paterson's Curse (Salvation Jane) ( <i>Echium plantagineum</i> ), Rough Poppy ( <i>Papaver hybridum</i> )	NSW, Vic, SA only			
	Sorrel ( <i>Rumex acetosella</i> ), Toad Rush ( <i>Juncus bufonius</i> )	NSW, Vic, Tas, SA only			
	Stinging Nettle ( <i>Urtica urens</i> )	NSW only	Cotyledon stage		

Crop	Weed	State	Weed Stage	Rate	Critical Comments
Field Peas	Prickly Lettuce ( <i>Lactuca serriola</i> )	NSW, Vic, Tas, SA only	4 leaf	125 mL/ha plus 125 mL/ha MCPA amine (500 g/L)	Refer Critical Comments previous pages
			6 leaf	150 mL/ha plus 150 mL/ha MCPA amine (500 g/L)	
	Charlock (Wild Mustard) ( <i>Sinapi arvensis</i> )		4 leaf	125 mL/ha plus 125 mL/ha MCPA amine (500 g/L)	
			6 to 8 leaf	150 mL/ha plus 150 mL/ha MCPA amine (500 g/L)	
Oilseed Poppy	Charlock ( <i>Sinapi 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 120 mm in diameter	150 mL/ha (4 to 6 leaf crop stage) and/or 200 mL/ha (6 to 10 leaf crop stage)	<b>Crop stage</b> INNOVA DIFLUFENICAN may be mixed with Reglone® or Asulox* based on recommendations from poppy contracting companies. DO NOT use in mixtures with Tramat*. <b>Application and weed control</b> See comments on clover-based pasture, field peas, lentils and lupins.

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

#### WITHHOLDING PERIODS

**Harvest**

**All Crops: NOT REQUIRED WHEN USED AS DIRECTED**

**Grazing**

**All Crops: DO NOT GRAZE OR CUT FOR STOCKFEED FOR 14 DAYS AFTER APPLICATION**

#### GENERAL INSTRUCTIONS

For use as an early post-emergence spray in clover-based pasture, field peas, lentils, and lupins. INNOVA DIFLUFENICAN may also be used as a post sowing pre-emergence spray on lupins in New South Wales, 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 discoloration. The chlorosis spreads with the aerial growth and the plants become necrotic and die back.

After application, some transient crop discoloration 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 this product. Field peas are particularly sensitive.

#### Clover Tolerance Table

VARIETY	EFFECT ON VEGETATIVE GROWTH	VARIETY	EFFECT ON VEGETATIVE GROWTH
Arrowleaf (Zulu)	Moderate	Subterranean (Larissa)	Moderate
Balansa (Paradana)	Moderate	Subterranean (Mt. Barker)	Moderate
Persian (Kyambro)	Minimal	Subterranean (Seaton Park)	Minimal
Strawberry (Palestine)	Moderate	Subterranean (Trikkala)	Minimal
Subterranean (Clare)	Moderate	Subterranean (Woogenellup)	Moderate
Subterranean (Junee)	Moderate	White (Haifa)	Moderate
Subterranean (Karridale)	Moderate		
Reduction in growth - Minimal (0 to 20%), Moderate (20 to 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 (eg 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 to 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 100 L/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:

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

#### Compatibility

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

OPTIONS RATE	COMPATIBLE PRODUCT
Up to 150 mL	Simazine (500 g/L product) up to 1.0 L/ha
All rates	deltamethrin, dimethoate, alpha-cypermethrin, Karate®, omethoate, metribuzin, bifenthrin and quizalofop

#### Warning

Tank mixes with simazine should be applied post-emergence to lupins crops only. Increased crop effects may be experienced with the tank mix. DO NOT apply tank mixes to clover. When tank mixing INNOVA DIFLUFENICAN and quizalofop, use a surfactant only. Mixtures of INNOVA DIFLUFENICAN and haloxyfop applied to lupins or field peas can cause damage that may result in yield losses. Consult your local agronomist or the relevant grass herbicide manufacturer for advice on application and timing of tank mixtures.

As formulations of other manufacturers' products are beyond the control of Syngenta, and water quality varies with location, all mixtures should be tested prior to mixing commercial quantities.

<b>GROUP</b>	<b>F</b>	<b>HERBICIDE</b>
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### Resistant Weeds Warning

INNOVA DIFLUFENICAN 500 Herbicide is a member of the nicotinanilide group of herbicides and acts by inhibiting carotenoid biosynthesis. For weed resistance management INNOVA DIFLUFENICAN is a Group F herbicide. Some naturally occurring weed biotypes resistant to INNOVA DIFLUFENICAN 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 these herbicides are used repeatedly. These resistant weeds will not be controlled by INNOVA DIFLUFENICAN or other Group F herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Syngenta Crop Protection Pty Limited accepts no liability for any losses that may result from the failure of INNOVA DIFLUFENICAN to control resistant weeds.

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

DO NOT contaminate streams, rivers or waterways with the product 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. Protect from frost. 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 not 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 containers and product should not be burnt.

### SAFETY DIRECTIONS

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### FIRST AID

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### MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY

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