

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

# Bonanza<sup>®</sup> Elite

## Herbicide

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

**GROUP 12 HERBICIDE**

For the control of certain weeds in clover-based pastures, field peas, lentils, lupins and oilseed poppy as specified in the Directions for Use table



**ADAMA**

Formulation type  
Suspension  
Concentrate



adama.com

CONTENTS: 5 L, 10 L

### 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 Pastures, Field Peas, Lentils, Lupins	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><b>CROP STAGE</b> Sow crop evenly to a depth of 20 to 50 mm.</p> <p><b>Clover-Based Pasture:</b> Apply post-emergence, not before the 3rd trifoliolate leaf stage. <i>Warning:</i> 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><b>Field Peas:</b> Apply early post-emergence after the third node stage and before the start of flowering. <i>Warning:</i> Field peas grown on high pH soils in the presence of free lime may be less tolerant to BONANZA<sup>®</sup> ELITE.</p> <p><b>Lentils:</b> Apply early post-emergence after the third node stage of the crop. <i>Warning:</i> Some lentil varieties may be more sensitive than others. DO NOT apply to Northfield variety. Avoid spray overlap. Refer to General Instructions.</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, ACT, Vic, Tas, SA only	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	
			Up to 4 leaf stage and not more than 120 mm in diameter	150 mL/ha	
Turnip Weed ( <i>Rapistrum rugosum</i> )			Up to 4 leaf stage and not more than 120 mm in diameter	150 mL/ha	

*continued overleaf*

CROP	WEEDS CONTROLLED	STATE	WEED STAGE	RATE	CRITICAL COMMENTS	
Clover-based Pastures, Field Peas, Lentils, Lupins – <i>continued</i>	Charlock (Wild Mustard, <i>Sinapis arvensis</i> ), Deadnettle ( <i>Lamium amplexicaule</i> )	NSW, ACT, Vic, Tas, SA only	Up to 4 leaf stage and not more than 120 mm in diameter	200 mL/ha	<p><i>Continued from previous page</i></p> <p><b>Lupins:</b>  <b>Post-emergence of Crop:</b> Apply post-emergence from the 2 leaf to the 6 leaf stage of crop (40 to 100 mm high).  <b>Post-sowing, Pre-emergence of Crop (Not WA):</b> Apply in a tank mix with the recommended rate of post-sowing pre-emergence treatment of simazine. (BONANZA® ELITE should not be incorporated.)</p>	
	Prickly Lettuce ( <i>Lactuca serriola</i> )		Up to 2 leaf stage and not more than 60 mm in diameter			
	Pheasants Eye ( <i>Adonis microcarpa</i> )	SA only				
<b>Suppression of the Following Weeds</b>						
Clover-based Pastures, Field Peas, Lentils, Lupins	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, ACT, Vic, Tas, SA, WA only	Up to 4 leaf stage and not more than 120 mm in diameter	200 mL/ha	<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:</p> <ul style="list-style-type: none"> <li>• high crop and weed density,</li> <li>• late season germinations,</li> <li>• abnormal weed growth (including early flowering); higher rates of product (up to the maximum rate of application specified for that weed) may be required.</li> </ul>	
	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, ACT, Vic, Tas, SA only
	Amsinckia ( <i>Amsinckia</i> spp.), Wireweed ( <i>Polygonum aviculare</i> )	NSW, ACT, Vic, Tas, SA, WA 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, ACT, Vic, Tas, SA only
	Sorrel ( <i>Rumex acetosella</i> ), Toad Rush ( <i>Juncus bufonius</i> )					
	Stinging Nettle ( <i>Urtica urens</i> )	NSW, ACT only	Cotyledon stage			
	Field Peas	Prickly Lettuce ( <i>Lactuca serriola</i> )	NSW, ACT, Vic, Tas, SA only			4 leaf
6 leaf				150 mL/ha plus 150 mL/ha MCPA amine (500 g/L)		
Charlock (Wild Mustard) ( <i>Sinapis arvensis</i> )		4 leaf		125 mL/ha plus 125 mL/ha MCPA amine (500 g/L)		
		6-8 leaf		150 mL/ha plus 150 mL/ha MCPA amine (500 g/L)		

CROP	WEEDS CONTROLLED	STATE	WEED STAGE	RATE	CRITICAL COMMENTS
Lupins Danja, Gungurru, Kalya, Kiev and Tanjil varieties  For information on other varieties contact Adama	Wild Radish ( <i>Raphanus raphanistrum</i> )  Capeweed ( <i>Arctotheca calendula</i> ) (suppression only)	WA only	Up to 8 leaf stage and not more than 200 mm in diameter  Up to 6 leaf stage	100 mL/ha plus 7 g/ha Eclipse*	<b>CROP STAGE</b> Apply no earlier than the 8 leaf stage and before the start of primary flowering (big bud). <b>APPLICATION AND WEED CONTROL</b> Apply when weeds are actively growing. Good spray coverage of the weeds is important. Apply before weeds are obscured by the crop canopy. Control may be reduced where Wild Radish populations exceed 100 plants per m <sup>2</sup> . DO NOT add crop oils, wetters, surfactants, insecticides or grass herbicides as unacceptable crop damage may occur. A minimum of ten days should elapse between application of a grass herbicide and this mixture. DO NOT use where water hardness exceeds 500 ppm. Lupins should be actively growing at the time of treatment with no evidence of brown leaf spot or insect damage. A slight yellowing, often accompanied by height reduction, may be noticeable from 1-4 weeks after application, however these effects are generally transient. Avoid spraying double overlaps.
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 120 mm in diameter	150 mL/ha (4-6 leaf crop stage) and/or 200 mL/ha (6-10 leaf crop stage)	<b>CROP STAGE</b> BONANZA® ELITE may be mixed with diquat e.g. Reglone* or asulam e.g. Rattler® based on recommendations from poppy contracting companies. DO NOT use in mixtures with ethofumesate. <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: 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. BONANZA® ELITE may also be used as a post sowing pre-emergence spray 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.

BONANZA® ELITE will not effectively control:

- Regrowth of suppressed weeds,
- Transplanted weeds,
- Regrowth from rhizomes or roots,
- Weeds growing under stress from previous herbicide applications.

The level of effective residual control may be reduced where:

- 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.

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-emergent 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
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 (Wooogenellup)	Moderate
White (Haifa)	Moderate

Reduction in growth – Minimal (0-20%), Moderate (20%-50%)

The following varieties of subterranean clover have been tested for effects on seed yield: Seaton Park, Trikkala and Wooogenellup. 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 Application:** 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 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:

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

BONANZA® ELITE is physically compatible with most currently registered grass herbicides as two-way tank mixtures.

BONANZA® ELITE OPTIONS	COMPATIBLE PRODUCT
Up to 150 mL	Simazine (500 g/L product) up to 1.0 L/ha
All rates	Ballistic® Elite, dimethoate formulations, Alpha-Scud® Elite, esfenvalerate, Karate*, Metribuzin 750WP, Venom® 80 SC, Leopard®
Up to 100 mL	Eclipse* up to 7 g/ha (provided water hardness does not exceed 500 ppm)

**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 BONANZA® ELITE or BONANZA® ELITE/grass herbicide tank-mixtures. Applications to lupins and field peas under stressed conditions may cause significant damage to the crop. Tank mixes with simazine, metribuzin or Eclipse should be applied post-emergence to lupins crops only, and only to lupin varieties and at lupin growth stages recommended for these products. Increased crop effects may be experienced with the tank mix.

When tank mixing BONANZA® ELITE and Leopard, use a surfactant only. Mixtures of BONANZA® ELITE and Leopard applied to lupins or field peas can cause damage that may result in yield losses. Consult your local Adama representative or the relevant grass herbicide manufacturer for advice on application and timing of tank-mixtures. DO NOT apply BONANZA® ELITE in mixture with simazine or metribuzin to Myallie lupins if atrazine has been applied pre-emergence. DO NOT apply tank-mixtures to clover.

As formulations of other manufacturer's products are beyond the control of Adama, all mixtures should be tested prior to mixing commercial quantities.

## RESISTANT WEEDS WARNING

BONANZA® ELITE Herbicide is a member of the nicotinilide group of herbicides and has the inhibition of carotenoid biosynthesis mode of action. For weed resistance management BONANZA® ELITE is a Group 12 Herbicide. Some naturally occurring weed biotypes resistant to BONANZA® ELITE and other Group 12 herbicides may exist through normal genetic variability in any weed population. The resistant weeds can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by BONANZA® ELITE or other Group 12 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Adama Australia accepts no liability for any losses that may result from the failure of BONANZA® ELITE to control resistant weeds.

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

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.

GROUP **12** HERBICIDE

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

DO NOT contaminate dams, rivers or streams with this product or used container. 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 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 the relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

**SAFETY DIRECTIONS**

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

**FIRST AID**

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

**SAFETY DATA SHEET**

Additional information is listed in the safety data sheet (SDS). A safety data sheet for BONANZA® ELITE is available from adama.com.au or call Customer Service on 1800 423 262.

**CONDITIONS OF SALE:** The use of BONANZA® ELITE Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Adama Australia accepts no responsibility for any consequence whatsoever from the use of this product.

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**NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE.**

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