

# POISON

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

## Bronco<sup>®</sup> 200

### Herbicide



# ADAMA

## ESSENTIALS

**ACTIVE CONSTITUENT: 200 g/L BROMOXYNIL**  
 present as the N-OCTANOYL ESTER  
**SOLVENT: 616 g/L LIQUID HYDROCARBON**

GROUP	C	HERBICIDE
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*For control of broadleaf weeds in cereals, linseed, lucerne, pastures and turf as specified in the Directions for Use table.*

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**CONTENTS: 20 L, 110 L, 200 L, 1000 L**

**DIRECTIONS FOR USE**

**RESTRAINTS:** DO NOT spray if crops or weeds are stressed due to dry or excessively moist conditions.  
 DO NOT apply to diseased or frost-affected crops or if frosts are imminent.  
 DO NOT apply if rain is expected within three hours.

SITUATION & CROP	WEEDS CONTROLLED	STAGE OF WEED GROWTH	STATE	RATE HA	CRITICAL COMMENTS
Wheat, Barley, Cereal Rye, Oats and Triticale: including those undersown with Clover, Lucerne or Medic (Vic only)  Linseed;  Clover or Lucerne Pastures; Lotus seed or forage crops (Qld only)	Amsinckia ( <i>Amsinckia</i> spp.), Black Bindweed ( <i>Polygonum convolvulus</i> ) (Climbing Buckwheat), Capeweed ( <i>Arctotheca Calendula</i> ), Chamomile ( <i>Matricaria matricarioides</i> ), Common Peppergrass ( <i>Lepidium hyssopifolium</i> ), Corn Gromwell ( <i>Buglossoides arvensis</i> ) (Ironweed, Sheepweed), Fat Hen ( <i>Chenopodium album</i> ), Field Madder ( <i>Sherardia arvensis</i> ), Lesser Swinecress ( <i>Coronopus didymus</i> ), Mountain Sorrel ( <i>Calandrinia</i> spp.), Saffron Thistle ( <i>Carthamus Lanatus</i> ), Shepherd's Purse ( <i>Capsella bursa-pastoris</i> ), Tree Hogweed ( <i>Polygonum patulum</i> ), Variegated Thistle ( <i>Silybum marianum</i> )	Up to the 4 leaf stage or when plants are no more than 35 mm in diameter	All States	1.4 L	<p><b>CROP STAGE</b>                      Wheat, Barley, Cereal, Rye, Oats and Triticale: 3 leaf to fully tillered (Zadoks Scale Z13-30).                      Linseed: 50 to 150 mm high.                      Lucerne and Clover: After seedlings have one trifoliate leaf or before there is 150 mm regrowth in established stands.                      Lotus: Apply post-emergence at least 4 weeks after sowing (crop seedlings with a min. of 2-6 true leaves).</p> <p><b>APPLICATION:</b> Avoid application during temperatures above 20°C as seedling mortality may occur and established plants may be damaged. Good coverage of the spray on the weeds is essential. Apply only in the Autumn and Winter (mid-April to end of August). For optimum control, apply only when the weeds are actively growing and before the weeds are shielded by the crop.</p> <p><b>CAUTION</b>                      Lucerne and Clover: This product will cause slight leaf burning of undersown lucerne and Clover. DO NOT apply to Persian clover or Berseem clover. Linseed: DO NOT spray linseed by aerial application.                      Lotus: Some initial scorching of leaves may occur in some cases.</p>
		Up to the 6 leaf stage or when plants are no more than 50 mm in diameter		2 L	
	Mexican Poppy ( <i>Argemone mexicana</i> ), Threecornered Jack ( <i>Emex australis</i> ) (Doublegee, Spiny Emex), Turnip Weed ( <i>Rapistrum rugosum</i> ) (Giant Mustard), Wild Radish ( <i>Raphanus raphanistrum</i> ), Wild Mustard ( <i>Sisymbrium</i> spp.), Wild Turnip ( <i>Brassica tournefortii</i> ), Wireweed## ( <i>Polygonum aviculare</i> ), Patersons Curse# ( <i>Echium plantagineum</i> ) (Salvation Jane)	Up to the 4 leaf stage or when plants are no more than 50 mm in diameter			

*-Continued overleaf*

SITUATION & CROP	WEEDS CONTROLLED	STAGE OF WEED GROWTH	STATE	RATE HA	CRITICAL COMMENTS
Wheat, Barley, Cereal Rye, Oats and Triticale: including those undersown with Clover, Lucerne or Medic (Vic only)  Linseed;  Clover or Lucerne Pastures; Lotus seed or forage crops (Qld only)	Fumitories# ( <i>Fumaria</i> spp.)	Up to the 4 leaf stage or when plants are no more than 50 mm in diameter	Qld, NSW, Vic, SA, WA only	2 L	-Continued Medics: Application to some cultivars of Medics may result in unacceptable crop damage in some situations. # Effective control of Patersons Curse and Fumitories will only be obtained under good growing conditions. ## Where Wireweed is growing under stress, it has been found to be less susceptible.
	Adonis ( <i>Adonis microcarpa</i> ) (Pheasant's Eye), Birds Eye ( <i>Cotula australis</i> ) (Carrot Weed)	Up to the 4 true leaf stage	SA Only	700 mL	DO NOT use where undersown medics occur.
		Greater than the 4 true leaf stage		1.4 L	
	Fireweed ( <i>Senecio</i> spp.)	Prior to flower development	Qld, NSW only		Apply during the Autumn-Winter period when weed are young and actively growing.
	Early flowering stage	2.8 L			
Wheat, Barley, Cereal Rye, Oats and Triticale: including those undersown with Clover, Lucerne or Medic  Clover Seed Crops	Amsinckia ( <i>Amsinckia</i> spp.), Capeweed ( <i>Arctotheca calendula</i> ), Chamomile ( <i>Matricaria matricarioides</i> ), Charlock ( <i>Sinapis arvensis</i> ), Corn Gromwell ( <i>Buglossoides arvensis</i> ) (Ironweed, Sheepweed), Fat Hen ( <i>Chenopodium album</i> ), Field Madder ( <i>Sherardia arvensis</i> ), Hexham Scent ( <i>Melilotus indicus</i> ) (King Island Melilot), Horned Poppy ( <i>Glaucium flavum</i> ), Indian Hedge Mustard ( <i>Sisymbrium orientale</i> ), Lesser Swinecress ( <i>Coronopus didymus</i> ), Mexican Poppy ( <i>Argemone mexicana</i> ), Mintweed ( <i>Salvia reflexa</i> ), Mountain Sorrel ( <i>Calandrinia</i> spp.) (Purple Calandrinia), Patersons Curse ( <i>Echium plantagineum</i> ) (Salvation Jane), Rough Poppy ( <i>Papaver hybridum</i> ), Saffron Thistle ( <i>Carthamus lanatus</i> ), Shepherd's Purse ( <i>Capsella bursa-pastoris</i> ), Slender Thistle ( <i>Carduus tenuiflorus</i> ), Turnip Weed ( <i>Rapistrum rugosum</i> ) (Giant Mustard), Wild Radish ( <i>Raphanus raphanistrum</i> )	Up to the 5 leaf stage or when weed plants are no more than 50 mm in diameter	WA only	750 mL PLUS 550 mL of 500 g/L 2,4-D amine OR PLUS 700 mL of 500 g/L MCPA amine	<b>CROP STAGE:</b> CEREALS: 3 leaf to fully tillered. (Zadoks Scale Z13-30). CLOVER: Apply after clover seedlings have at least three trifoliate leaves. <b>APPLICATION:</b> Avoid application during temperatures above 20°C as seedling mortality may occur and established plants may be damaged. Apply in Autumn and Winter (mid-April to end of August). Apply only when weeds are actively growing and before the weeds are shielded by the crop. <b>CAUTION:</b> Some crop damage and/or yield loss may occur in Olympic and Shortim wheat cultivars. DO NOT apply to Persian clover or Berseem clover. A slight burning of clover may occur. DO NOT use 2,4-D or MCPA tank mix if wheat, oats, barley or triticale are undersown with lucerne, clover or medics unless some damage is acceptable. This product may be tank mixed with Hoegrass <sup>1</sup> for control of Annual Ryegrass and Wild Oats in Wheat and Barley only. DO NOT use 2,4-D or MCPA tank mix if using a tank mix with Hoegrass <sup>1</sup> .
	Common Peppergrass ( <i>Lepidium hyssopifolium</i> ), Tree Hogweed ( <i>Polygonum patulum</i> )		SA only	1.4 L PLUS 550 mL of 500 g/L 2,4-D amine OR PLUS 700 mL of 500 g/L MCPA amine	
	Black Bindweed ( <i>Polygonum convolvulus</i> ) (Climbing Buckwheat)	Up to the 8 leaf stage	Vic only	1.4 L PLUS 300 mL of 500 g/L MCPA amine	
			Vic, SA only		
Wheat, Barley, Oats and Triticale	Spiny Emex ( <i>Emex australis</i> ) (Doublegee, Threecornered Jack), Wireweed ( <i>Polygonum aviculare</i> ) Variegated Thistle ( <i>Silybum marianum</i> )	Up to the 4 leaf stage or when weed plants are no more than 50 mm in diameter	Qld, NSW, Vic, Tas, SA only	1.4 L PLUS 300 mL of 500 g/L MCPA amine	<b>CROP STAGE:</b> 5 leaf to fully tillered (Zadoks scale Z15-30); Apply under good growing conditions. <b>BOOM SPRAYING:</b> Use a minimum of 220 L spray per hectare on Black Bindweed when crop is greater than 300 mm high. <b>CAUTION:</b> Some crop damage and/or yield loss may occur in Olympic and Shortim wheat cultivars. DO NOT mix with 2,4-D or MCPA tank mix if wheat, oats, barley or triticale are undersown with lucerne, clover or medics unless some damage is acceptable. DO NOT apply to medics (Western Australia only). This product may be tank mixed with Hoegrass <sup>1</sup> for control of Annual Ryegrass and Wild Oats in Wheat and Barley only. DO NOT use 2,4-D or MCPA tank mix if using a tank with Hoegrass <sup>1</sup> .
	Fumitories ( <i>Fumaria</i> spp.)		Qld, NSW, Vic only		
	Wild Mustard ( <i>Sisymbrium</i> spp.), Wild Turnip ( <i>Brassica tournefortii</i> )		Qld, Vic only		
	Spiny Emex ( <i>Emex australis</i> ) (Doublegee, Threecornered Jack), Wireweed ( <i>Polygonum aviculare</i> )	4-5 leaf stage	WA only		

SITUATION & CROP	WEEDS CONTROLLED	STAGE OF WEED GROWTH	STATE	RATE HA	CRITICAL COMMENTS
Wheat, Barley, Oats and Triticale (continued)	Fumitories ( <i>Fumaria</i> spp.)	4-5 leaf stage	Qld, NSW, Vic, SA only	2.1 L PLUS 550 mL of 500 g/L 2,4-D amine	<p><b>CROP STAGE:</b> 5 leaf to fully tillered (Zadoks scale Z15-30); Apply under good growing conditions.</p> <p><b>BOOM SPRAYING:</b> Use a minimum of 220 L spray per hectare on Black Bindweed when crop is greater than 300 mm high.</p> <p><b>CAUTION:</b> Some crop damage and/or yield loss may occur in Olympic and Shortim wheat cultivars. DO NOT mix with 2,4-D or MCPA tank mix if wheat, oats, barley or triticale are undersown with lucerne, clover or medics unless some damage is acceptable. DO NOT apply to medics (Western Australia only). This product may be tank mixed with Hoegrass<sup>1</sup> for control of Annual Ryegrass and Wild Oats in Wheat and Barley only. DO NOT use 2,4-D or MCPA tank mix if using a tank with Hoegrass<sup>1</sup>.</p>
	Black Bindweed ( <i>Polygonum convolvulus</i> ) (Climbing Buckwheat), Chamomile ( <i>Matricaria matricarioides</i> ), Fat Hen ( <i>Chemopodium album</i> ), Field Madder ( <i>Sherardia arvensis</i> ), Lesser Swinecress ( <i>Coronopus didymus</i> ), Mountain Sorrel ( <i>Calandrinia menziesii</i> ), Patersons Curse ( <i>Echium plantagineum</i> ) (Salvation Jane), Shepherd's Purse ( <i>Capsella bursa-pastoris</i> ), Variegated Thistle ( <i>Silybum marianum</i> )	5 to 8 leaf stage	All States	OR PLUS 700 mL of 500 g/L MCPA amine	
Pastures, Roadsides and Rights-of-Way	African Daisy ( <i>Senecio pterophorus</i> )	Up to and including the flowering stage	SA only	300 mL per 100 L water	The plants, including the stems, must be thoroughly wet to the point of run-off. Apply when the plants are actively growing. A non-ionic wetter should be added at 175 mL per 100 litres of spray. A follow-up treatment may be necessary for large, well-established plants.
	Boneseed ( <i>Chrysanthemoides monilifera</i> )	Seedling only	Vic, Tas only	160 mL per 100 L water	Ensure an overall spray coverage on weed seedlings.

SITUATION & CROP	WEEDS CONTROLLED	STATE	PER HA	RATE HIGH VOL/100L	PER 15L KNAPSACK	CRITICAL COMMENTS
Turf: Established Couch (including Queensland Blue), Buffalo, Bent, Paspalum, Kikuyu rescue and Rye Lawns	Bindy-eye ( <i>Calotis hispidula</i> ), Jo-Jo (Onehunga) ( <i>Soliva pterosperma</i> ), Cudweed ( <i>Gnaphalium</i> spp.)	All States	6.0 L/500 L water	300 mL	60 mL/100 m <sup>2</sup>	Apply evenly over the area to be treated. A slight browning of grasses, especially Paspalum, may occur in hot conditions.

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

**WITHHOLDING PERIOD:**

**CEREALS, PASTURES AND FORAGE CROPS: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 8 WEEKS AFTER APPLICATION.**

## GENERAL INSTRUCTIONS

### RESISTANT WEEDS WARNING

BRONCO® 200 Herbicide is a member of the Nitrite group of herbicides. BRONCO 200 **GROUP C HERBICIDE** has the photosystem II inhibitor mode of action. For weed resistance management BRONCO 200 is a Group C herbicide.

Some naturally-occurring weed biotypes resistant to BRONCO 200 and other Group C 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 BRONCO 200 or other Group C herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Adama Australia Pty. Ltd. accepts no liability for any losses that may result from the failure of BRONCO 200 to control resistant weeds. However resistance should not be assumed without first viewing the method of application, the coverage and the timing of application.

### MIXING

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 again before spraying commences.

### APPLICATION

**BOOM SPRAYER:** Apply 50 to 200 (WA: 50 to 100) litres of water per hectare. Calibrate the machine before use to ensure that the correct application rate is obtained. Check height of boom above the crop to ensure that the spray is evenly distributed. A minimum of 160 litres and preferably 200 litres of water per hectare is recommended where the weed infestation is heavy or the crop cover is dense. Wash the sprayer thoroughly after use with clean water.

**AERIAL APPLICATION:** Apply a minimum of 22 litres of water per hectare. Markers should always move upwind before the aircraft passes overhead. Application by microneaire equipment may give variable results.

### COMPATIBILITY

This product may be mixed in the spray tank with one of the following herbicides or insecticides according to the directions of use of this product: Chlorpyrifos, Dicamba, Dimethoate, Endosulfan, Diclofop-Methyl, MCPA, Omethoate and 2,4-D Amine.

As formulations of other manufacturers' products are beyond the control of Adama Australia Pty. Ltd. all mixtures should be tested prior to mixing commercial quantities.

### 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.

### PROTECTION WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

### STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Protect from frost. 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 a 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.

**For refillable containers,** empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

**Envirodrum Micro Matic Valve (110 L):** Store the original sealed Envirodrum in a cool well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the Envirodrum with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler delivery system and hoses are

disconnected, triple rinsed with clean water and drained accordingly. When the contents of the Envirodrum have been used, please return the Envirodrum to the point of purchase. The Envirodrum remains the property of Adama Australia Pty. Ltd.

### 1000 L

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Storage must be secure so that contents cannot be tampered with. All locks and/or seals must be in order. If locks or seals are broken prior to initial use then the integrity of this product cannot be assured. If this occurs Adama Australia Pty. Ltd. should be advised immediately. This minibulk container is reusable and remains the property of Adama Australia Pty. Ltd. DO NOT rinse empty container. Empty contents fully into application equipment. Close all valves and return to the point of supply for refill or storage. No other liquid, solid or pesticide product should be put into it. When empty return to Adama Australia Pty. Ltd. for cleaning, relabelling and refilling.

### SAFETY DIRECTIONS

Product is poisonous if inhaled or swallowed. May irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing spray wear elbow-length PVC gloves and face shield. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each days use wash gloves and face shield.

### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If swallowed, DO NOT induce vomiting. Give a glass of water.

### MATERIAL SAFETY DATA SHEET

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for BRONCO 200 is available from Adama on request. Call Customer Service on (02) 9431 7800.

**CONDITIONS OF SALE:** The use of BRONCO® 200 being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia Pty. Ltd., 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 Pty. Ltd. 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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Batch No.

Date of Manufacture