

POISON

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

Bronco[®] 400

Herbicide

ACTIVE CONSTITUENT: **400 g/L BROMOXYNIL**

present as the N-OCTANOYL ESTER

SOLVENT: 427 g/L LIQUID HYDROCARBON

GROUP

C

HERBICIDE

Crops: Cereals, linseed, clover, lucerne, turf, fallow and non-crop situations

Weeds: A range of broadleaf weeds as per the Directions for Use table

Formulation type

Emulsifiable
Concentrate



 **CENTAUR**
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ADAMA

adama.com

CONTENTS: 5 L - 1000 L

DIRECTIONS FOR USE

RESTRAINTS:

DO NOT apply by mister machines.

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

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

DO NOT apply when rain is expected within 3 hours.

DO NOT apply to lucerne crops or clover based pastures or turf in temperatures above 20°C or when temperatures above 20°C may follow for some days after application.

DO NOT apply when windspeed is less than 3 or more than 20 km per hour at application site.

DO NOT apply during surface temperature inversion conditions at application site.

DO NOT apply with smaller than COARSE spray quality according to ASAE S572 definition for standard nozzles.

SITUATION AND CROP	WEEDS CONTROLLED	WEED STAGE	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 (Climbing Buckwheat) (<i>Fallopia convolvulus</i>), Capeweed (<i>Arctotheca calendula</i>), Chamomile (<i>Matricaria matricarioides</i>), Common Peppergrass (<i>Lepidium africanum</i>), Corn Gromwell (Ironweed, Sheepweed) (<i>Buglossoides arvensis</i>), Fat Hen (<i>Chenopodium album</i>), Field Madder (<i>Sherardia arvensis</i>), Lesser Swinecress (<i>Coronopus didymus</i>), Mountain Sorrel (<i>Oxalis acetosella</i>), Purple Calandrinia (<i>Calandrinia menziesii</i>), Saffron Thistle (<i>Carthamus lanatus</i>), Shepherd's Purse (<i>Capsella bursa-pastoris</i>), Three-Horned Bedstraw (<i>Gallium tricornutum</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	700 mL	CROP STAGE: Wheat, Barley, Cereal, Rye, Oats and Triticale: 3 leaf to full tillered (Z13-30). Linseed: 50 - 150 mm high. Lucerne and Clover: After seedlings have one trifoliolate 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 minimum of 2-6 true leaves). APPLICATION: Refer to General Instructions. Avoid application when maximum daily temperatures above 20°C occur, or are likely to occur for a few days after application, as seedling mortality may occur and established plants may be damaged. Good coverage of the spray on the weed 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. CAUTION: 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. Medics: Application to some cultivars of Medics may result in unacceptable crop damage in some situations. #Effective control of Paterson's 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.
		Up to the 6 leaf stage or when plants are no more than 50 mm in diameter		1 L	
	Mexican Poppy (<i>Argemone ochroleuca</i>), Three-cornered Jack (Doublegee, Spiny Emex) (<i>Emex australis</i>), Turnip Weed (Giant mustard) (<i>Rapistrum rugosum</i>), Wild Radish (<i>Raphanus raphanistrum</i>), Wild Mustard (<i>Sisymbrium</i> spp.), Wild Turnip (<i>Brassica tournefortii</i>) Wireweed* (<i>Polygonum aviculare</i>), Paterson's Curse# (Salvation Jane) (<i>Echium plantagineum</i>)	Up to the 4 leaf stage or when plants are no more than 50 mm in diameter			
		Fumitories* (<i>Fumaria</i> spp.)		Qld, NSW, Vic, SA, WA, ACT only	
	Pheasant's Eye (<i>Adonis microcarpa</i>) Birds Eye (Carrot Weed) (<i>Cotula australis</i>)	Up to the 4 true leaf stage Greater than the 4 true leaf stage	SA only	350 mL 700 mL	
Fireweed (<i>Senecio</i> spp.)	Seedlings Early flowering stage	Qld, NSW, ACT only	1.4 L		
Wheat, Barley, Cereal Rye, Oats and Triticale: including those undersown with Clover, Lucerne or Medics; 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 (Ironweed, Sheepweed) (<i>Buglossoides arvensis</i>), Fat Hen (<i>Chenopodium album</i>), Field Madder (<i>Sherardia arvensis</i>), Hexham Scent (King Island Melilot) (<i>Melilotus indicus</i>), Horned Poppy (<i>Glaucium flavum</i>), Indian Hedge Mustard (<i>Sisymbrium orientale</i>), Lesser Swinecress (<i>Coronopus didymus</i>), Mexican Poppy (<i>Argemone ochroleuca</i>), Mintweed (<i>Salvia reflexa</i>), Purple Calandrinia (<i>Calandrinia menziesii</i>), Paterson's Curse (Salvation Jane) (<i>Echium plantagineum</i>), 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 (Giant Mustard) (<i>Rapistrum rugosum</i>), Wild Radish (<i>Raphanus raphanistrum</i>)	Up to the 5 leaf stage or when plants are no more than 50 mm in diameter	WA only	375 mL PLUS 440 mL of Adama 2,4-D Amine 625 OR 375 mL PLUS 470 mL Adama MCPA 750	CROP STAGE: Cereals: 3 leaf to fully tillered. (Z13-30). Clover: Apply after clover seedlings have at least three trifoliolate leaves. APPLICATION: Refer to General Instructions. Avoid application when maximum daily temperatures above 20°C occur, or are likely to occur for a few days after application, as seedling mortality may occur and established plants may be damaged. Apply only in the 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. CAUTION: 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 Rhino® 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 Rhino®.
			Vic, SA only	700 mL PLUS 440 mL of Adama 2,4-D Amine 625 OR PLUS 470 mL Adama MCPA 750	
			Vic only	PLUS 470 mL Adama MCPA 750	
	Black Bindweed (Climbing Buckwheat) (<i>Fallopia convolvulus</i>)	Up to the 8 leaf stage	Vic, SA only	Adama MCPA 750	

SITUATION AND CROP	WEEDS CONTROLLED	WEED STAGE	STATE	RATE/ha	CRITICAL COMMENTS
Wheat, Oats, Barley, Triticale alone or with undersown lucerne and clover	Common Sowthistle (<i>Sonchus oleraceus</i>)	Up to the 8 leaf stage	Qld, Northern NSW only	700 mL PLUS 440 mL of Adama 2,4-D Amine 625 OR PLUS 470 mL Adama MCPA 750	APPLICATION: Refer to General Instructions. Avoid application when maximum daily temperatures above 20°C occur, or are likely to occur for a few days after application, as seedling mortality may occur and established plants may be damaged. Good coverage of the spray on the weed 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. CAUTION: Lucerne and Clover: This product will cause slight leaf burning of undersown lucerne and clover. DO NOT apply to Persian clover or Berseem clover.
		Up to 4 leaves		700 mL	Strictly for use on small weeds early in crop before shading out. CROP STAGE: Wheat, Barley, Oats and Triticale: 3 leaf to mid tillering (Z13-23). Use a minimum spray volume of 70 L/ha. If Group B resistance is suspected, or weeds have grown through a previous application of chlorsulfuron apply 1.1 L/ha.
		4 - 8 Leaves		1.1 L	CROP STAGE: Wheat, Barley, Oats and Triticale: 3 leaf to full tillering (Z13-30). This product will cause slight leaf burning of undersown lucerne and clover.
Wheat, Barley, Oats and Triticale	Three-cornered Jack (Doublegee, Spiny Emex) (<i>Emex australis</i>), Wireweed (<i>Polygonum aviculare</i>), Variegated Thistle (<i>Silybum marianum</i>)	Up to the 4 leaf stage or when plants are no more than 50 mm in diameter	Qld, NSW, Tas, SA, Vic ACT only	700 mL PLUS 440 mL of Adama 2,4-D Amine 625 OR 700 mL PLUS 470 mL Adama MCPA 750	CROP STAGE: 5 leaf to fully tillered (Z15-30): Apply under good growing conditions. BOOM SPRAYING: Use a minimum of 220 L spray per hectare on Black bindweed when crop is greater than 300 mm high. CAUTION: 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 (WA only). This product may be tank mixed with Rhino® 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 Rhino®. APPLICATION: Refer to General Instructions. Avoid application when maximum daily temperatures above 20°C occur, or are likely to occur for a few days after application, as seedling mortality may occur and established plants may be damaged.
	Fumitories (<i>Fumaria</i> spp.)		Qld, NSW, ACT, Vic only		
	Wild Mustard (<i>Sisymbrium</i> spp.), Wild Turnip (<i>Brassica tournefortii</i>)	Qld, Vic only			
	Cleavers	Qld, Vic, NSW, ACT, Tas only			
	Three Cornered Jack (Doublegee, Spiny Emex) (<i>Emex australis</i>), Wireweed (<i>Polygonum aviculare</i>)	4 - 5 leaf stage	WA only	1.1 L PLUS 440 mL of Adama 2,4-D Amine 625 OR PLUS 470 mL Adama MCPA 750	
	Fumitories (<i>Fumaria</i> spp.)		Qld, NSW, Vic, SA, ACT only		
Black Bindweed (Climbing buckwheat) (<i>Fallopia convolvulus</i>), Chamomile (<i>Matricaria matricarioides</i>), Fat Hen (<i>Chenopodium album</i>), Field Madder (<i>Sherardia arvensis</i>), Lesser Swinecress (<i>Coronopus didymus</i>), Mountain Sorrel (<i>Oxalis acetosella</i>), Purple Calandrinia (<i>Calandrinia menziesii</i>), Paterson's Curse (Salvation Jane) (<i>Echium plantagineum</i>), Shepherd's Purse (<i>Capsella bursa-pastoris</i>), Three-Horned Bedstraw (<i>Gallium tricornutum</i>), Variegated Thistle (<i>Silybum marianum</i>)	5 - 8 leaf stage	All States			
Grain Sorghum	Cowvine or Peachvine (<i>Ipomoea lonchophylla</i>), Bellvine (<i>Ipomoea plebeia</i>)	Up to 4 leaves	Qld, NSW only	750 mL	CROP STAGE: 4 - 12 leaf stage. This product may cause transient leaf burn of some sorghum varieties. APPLICATION: Beyond the 6 - 8 leaf stage of the crop, dropped nozzles should be used to minimize chemical being sprayed into the whorl and on upper leaves of the crop and to reduce shading of weeds. Use on small weeds early in the crop life to prevent shading out of the weeds. Spray when weeds are actively growing and not when drought stressed. Use a minimum spray volume of 70 L/ha.
	Cowvine or Peachvine (<i>Ipomoea lonchophylla</i>)	4 - 8 leaves		1.0 L	
	Cowvine or Peachvine (<i>Ipomoea lonchophylla</i>), Bellvine (<i>Ipomoea plebeia</i>), Morning Glory (<i>Ipomoea Purpurea</i>), Bladder Ketmia (<i>Hibiscus trionum</i>), Annual Ground Cherry (<i>Physalis angulata</i>), Fierce Thornapple (<i>Datura ferox</i>), Anoda Weed (<i>Anoda cristata</i>)	Up to 4 leaves	4 - 8 leaves		750 mL PLUS 1.1 kg/ha Farmozine® 900 WG

SITUATION AND CROP	WEEDS CONTROLLED	WEED STAGE	STATE	RATE			CRITICAL COMMENTS
				RATE/ha	HIGH VOL / 100 L	PER 15 L KNAPSACK	
Fallow and Non Crop	Covvine or Peachvine (<i>Ipomoea lonchophylla</i>)	Up to 6 leaves	Qld, NSW, ACT only	700 mL			For all fallow and non-crop situations: Complete coverage is essential, plants which are shaded by stubble or other weeds will not be controlled. Weeds that are drought stressed and sprayed under hot conditions may not be adequately controlled. The addition of glyphosate will provide broader spectrum weed control where needed. Refer to the Compatibility section for appropriate glyphosate products. The rate of Wipe-Out® used should be robust for the conditions and sufficient to control the hardest-to-kill weed in the situation. For general fallow weed control application volumes above 50 L/ha are recommended.
		Up to 8 leaves		1.1 L			
	Climbing Buckwheat (<i>Fallopia convolvulus</i>)	Cotyledon to mature, vining plants	750 mL alone or 500 - 750 mL PLUS Wipe-Out®				
			Volunteer Conventional Cotton (<i>Gossypium hirsutum</i>)	Qld, NSW, WA, NT only	750 mL alone or 500 - 750 mL PLUS Wipe-Out®	For volunteer cotton control, including Roundup Ready* varieties a minimum spray volume of 80 L/ha should be used. BRONCO® 400 alone or with Wipe-Out® will not provide satisfactory control of ratoon or "stub" cotton.	
Volunteer Roundup Ready* Cotton (<i>Gossypium hirsutum</i>)		750 mL alone or PLUS Wipe-Out®					
Pastures	Adonis (Pheasant's Eye), Bird's Eye (Carrot Weed)	Up to 4 leaves	SA only	350 mL			Apply in May-June. Medics may be severely scorched at the low rate and killed at the high rate. DO NOT apply to polymorpha medics. Avoid application to clover-based pastures in temperatures over 20°C or when temperatures above 20°C may follow for some days after application; as seedling mortality may occur and established plants may be damaged. Apply with low volume boom spray during Autumn/Winter, when weeds are young and actively growing. Not effective on mature plants.
		More than 4 leaves		700 mL			
	Doublegee, Wild Radish	WA only	750 mL				
	Matricaria		375 mL				
	Fireweed	Seedlings	Qld, NSW, ACT only	700 mL			
Early flowering				1.4 L			
Pastures, Roadsides and Rights of Way	African Daisy (<i>Senecio pterophorus</i>)	Up to and including the flowering stage	SA only	150 mL/ 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. Wetspray 1000 should be added at 120 mL per 100 L of spray. A follow-up treatment may be necessary for large, well established plants. Ensure an overall spray coverage on weed seedlings.
	Boneseed/Bitou Bush (<i>Chrysanthemoides monilifera</i>)	Seedlings only	Vic, Tas only	80 mL/ 100 L water			
SITUATION AND CROP	WEEDS CONTROLLED	STATE	RATE			CRITICAL COMMENTS	
			RATE/ha	HIGH VOL / 100 L	PER 15 L KNAPSACK		
Turf: Established Couch (including Queensland Blue), Buffalo, Bent, Paspalum, Kikuyu, Fescue, and Rye lawns	Bindy-eye (<i>Calotis hispidula</i>), Jo-jo (Onehunga) (<i>Soliva pterosperma</i>), Cudweed (<i>Gnaphalium</i> spp.)	All states	3.0 L/ 500 L water	150 mL	30 mL/ 100 m ²	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 PERIODS

CROP HARVEST:

NOT REQUIRED WHEN USED AS DIRECTED.

CEREALS, PASTURES:

DO NOT GRAZE TREATED CROPS OR CUT FOR STOCKFOOD FOR 8 WEEKS AFTER APPLICATION

GENERAL INSTRUCTIONS

Before opening, carefully read Directions for Use, Precautionary and Protection Statements, Storage and Disposal, Safety Directions and First Aid Instructions. Use only at recommended growth stages of crops and weeds. DO NOT use on crops other than recommended.

MIXING INFORMATION

To ensure even mixing, half fill the spray tank with clean water and add the required amount of this product. Agitate thoroughly, then add the remainder of water. Agitate again before spraying commences.

APPLICATION

BOOM SPRAYER

USE ONLY low boom equipment set up to provide good coverage of weeds within the crop canopy. USE ONLY coarse spray quality according to ASAE S572 definition for standard nozzles. Apply 50 - 200 L (WA: 50 - 100 L) 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 L and preferably 200 L of water per hectare is recommended where the weed infestation is heavy or the crop cover is dense.

AERIAL APPLICATION

Apply a minimum of 22 L of water per hectare. Markers should always move upwind before aircraft passes overhead. Application by micronaire equipment may give variable results.

EQUIPMENT MAINTENANCE

After use, wash equipment thoroughly and rinse several times prior to re-use. Wash sprayer thoroughly with clean water after use. If using tank mixes with ADAMA 2,4-D Amine 625 or Adama MCPA Amine 750 apply with equipment that will not be used in 2,4-D and MCPA susceptible crops, particularly cotton and vines.

RESISTANT WEEDS WARNING

BRONCO® 400 Herbicide is a member of the nitriles group of herbicides. BRONCO® 400 has the photosystem II inhibitor mode of action. For weed resistance management BRONCO® 400 is a Group C herbicide. Some naturally occurring weed biotypes resistant to BRONCO® 400 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 this product or other Group C 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 BRONCO® 400 to control resistant weeds. However resistance should not be assumed without first viewing the method of application, the coverage and the timing of application.

RE-ENTRY PERIOD

DO NOT allow entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Drift Warning: 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.

Note: Maximum daily temperatures at or above 20°C at application, or on days following treatment may result in seedling mortality and established plants may be damaged.

PROTECTION OF LIVESTOCK

Low hazard to bees. May be applied at any time as recommended in the Directions for Use.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

STORAGE AND DISPOSAL

5 L, 10 L, 20 L: 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 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.

110 L: Store the original sealed container 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 container 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 container have been used, please return the container to the point of purchase. The 110 L container remains the property of Adama Australia.

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 should be advised immediately. This minibulk container is reusable and remains the property of Adama Australia. 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 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 day's use, wash gloves and face shield.

FIRST AID

If poisoning occurs, contact a Doctor or Poisons Information Centre (Phone 13 11 26). If swallowed, DO NOT induce vomiting. Give a glass of water.

SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for BRONCO® 400 Herbicide is available from adama.com or call Customer Service on 1800 423 262.

CONDITIONS OF SALE: The use of BRONCO® 400 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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FLAMMABLE LIQUID, N.O.S.
Contains Bromoxynil
(as the octanoyl ester),
Liquid Hydrocarbons
Hazchem Code: •3Y
Packaging Group: III**

