

CAUTION

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

Broadstar® Herbicide

ACTIVE CONSTITUENT: 480 g/L BENTAZONE
present as SODIUM SALT

GROUP **C** HERBICIDE

For selective post-emergence control of certain broadleaf weeds in Green (Dwarf French) Beans, Navy (Haricot) Beans, Peanuts, Red Kidney Beans, Red Mexican Beans and Soybeans as specified in the Directions for Use table.



ADAMA
ESSENTIALS

adama.com

CONTENTS: 10 L, 20 L

DIRECTIONS FOR USE

Restraint: DO NOT apply under hot, dry conditions.

CROP	WEEDS	STATE	RATE/ ha	WHP	CRITICAL COMMENTS
Broad Beans	Black Bindweed (<i>Polygonum convolvulus</i>), Blackberry Nightshade (<i>Solanum nigrum</i>), Corn Spurry (<i>Spergula arvensis</i>), Fat Hen (<i>Chenopodium album</i>), Fumitory (<i>Fumaria muralis</i>), Hedge Mustard (<i>Sisymbrium officinale</i>), Shepherd's Purse (<i>Capsella bursa-pastoris</i>), Wild Radish (<i>Raphanus raphanistrum</i>), Wild Turnip (<i>Brassica rapa campestris</i>)	Tas only	1 L	5 weeks	Apply when weeds are less than two true leaves.
			2 L		Apply when broad bean plants are at the two leaf stage or earlier and weeds are less than 5 cm high.
			3 L		Ensure weeds are less than 5 cm high, and broad bean plants are developed past the two leaf stage.
Green Beans (Dwarf French)	Thornapples (<i>Datura</i> spp.)	Qld, NSW, Vic, WA only	1.5 L or 2 L	5 weeks	Apply low rate when weeds are cotyledon to 4 leaves and high rate when 5 to 8 leaves.
	Noogoora Burr (<i>Xanthium pungens</i>)				Apply low rate when weeds are cotyledon to 3 leaves and high rate when 4 to 6 leaves.
	Annual Ground Cherry (<i>Physalis angulata</i>), Apple of Peru (<i>Nicandra physalodes</i>), Bellvine (<i>Ipomea plebeia</i>), Cobblers Pegs (<i>Bidens pilosa</i>), Star Burr (<i>Acanthospermum hispidum</i>), Variegated Thistle (<i>Silybum marianum</i>)		2 L		Apply when weeds are cotyledon to 4 leaves. Variegated Thistle should be less than 15 cm in diameter. Annual Ground Cherry should be less than 1.5 cm high. Control of Bellvine may be inconsistent if soil is dry.
	Anoda Weed (<i>Anoda cristata</i>), Hairy Wandering Jew (<i>Commelina benghalensis</i>)	Qld only		Apply when weeds are cotyledon to 3 leaves.	

CROP	WEEDS	STATE	RATE/ ha	WHP	CRITICAL COMMENTS
Green Beans (Dwarf French) – continued	Blackberry Nightshade (<i>Solanum nigrum</i>), Black Bindweed (<i>Polygonum convolvulus</i>), Corn Spurry (<i>Spergula arvensis</i>), Fumitory (<i>Fumaris muralis</i>), Fat Hen (<i>Chenopodium album</i>), Hedge Mustard (<i>Sisymbrium officinale</i>), Shepherd's Purse (<i>Capsella bursa-pastoris</i>), Wild Turnip (<i>Brassica rapa campestris</i>), Wild Radish (<i>Raphanus raphanistrum</i>)	Tas only	1 L	5 weeks	Apply when unifoliolate bean leaf is fully expanded.
			2 L		Apply when first trifoliolate bean leaf is fully expanded.
			3 L		Ensure weeds are less than 5 cm high and second trifoliolate bean leaf is fully expanded.
		Vic, SA only	3 L		Apply when weeds are cotyledon to 3 leaves. Ensure weeds are less than 5 cm high. If product is applied prior to the full expansion of the second trifoliolate leaf, sequential applications may be necessary to achieve satisfactory weed control, but no more than two applications should be used and the total rate applied should not exceed 3 L/ha. The addition of a non-ionic surfactant such as Wetspray 1000 at 125 mL per 100 litres of the spray volume is necessary for optimum weed control.
Navy Beans (Haricot)	Thornapples (<i>Datura</i> spp.)	Qld, NSW, Vic, WA only	1.5 L or 2 L	8 weeks	Apply low rate when weeds are cotyledon to 4 leaves and high rate when 5 to 8 leaves.
	Noogoora Burr (<i>Xanthium pungens</i>)		Apply low rate when weeds are cotyledon to 3 leaves and high rate when 4 to 6 leaves.		
	Annual Ground Cherry (<i>Physalis angulata</i>), Apple of Peru (<i>Nicandra physalodes</i>), Bellvine (<i>Ipomea plebeia</i>), Cobblers Pegs (<i>Bidens pilosa</i>), Star Burr (<i>Acanthospermum hispidum</i>), Variegated Thistle (<i>Silybum marianum</i>)	2 L	Apply when weeds are cotyledon to 4 leaves. Variegated Thistle should be less than 15 cm in diameter. Annual Ground Cherry should be less than 1.5 cm high. Control of Bellvine may be inconsistent if soil is dry.		
	Anoda Weed (<i>Anoda cristata</i>), Hairy Wandering Jew (<i>Commelina benghalensis</i>)	Qld only	Apply when weeds are cotyledon to 3 leaves.		
	Blackberry Nightshade (<i>Solanum nigrum</i>), Black Bindweed (<i>Polygonum convolvulus</i>), Corn Spurry (<i>Spergula arvensis</i>), Fumitory (<i>Fumaris muralis</i>), Fat Hen (<i>Chenopodium album</i>), Hedge Mustard (<i>Sisymbrium officinale</i>), Shepherd's Purse (<i>Capsella bursa-pastoris</i>), Wild Turnip (<i>Brassica rapa campestris</i>), Wild Radish (<i>Raphanus raphanistrum</i>)	Vic, Tas, SA only	3 L		Ensure weeds are less than 5 cm high. The addition of a non-ionic surfactant such as Wetspray 1000 at 125 mL per 100 litres of the spray volume is necessary for optimum weed control in Tasmania.
Peanuts	Thornapples (<i>Datura</i> spp.)	Qld only	1.5 L or 2 L	21 days	Apply low rate when weeds are cotyledon to 4 leaves and high rate when 5 to 8 leaves.
	Noogoora Burr (<i>Xanthium pungens</i>)		Apply low rate when weeds are cotyledon to 3 leaves and high rate when 4 to 6 leaves.		
	Annual Ground Cherry (<i>Physalis angulata</i>), Apple of Peru (<i>Nicandra physalodes</i>), Bellvine (<i>Ipomea plebeia</i>), Cobblers Pegs (<i>Bidens pilosa</i>), Star Burr (<i>Acanthospermum hispidum</i>), Variegated Thistle (<i>Silybum marianum</i>)		2 L		Apply when weeds are cotyledon to 4 leaves. Variegated Thistle should be less than 15 cm in diameter. Annual Ground Cherry should be less than 1.5 cm high. Control of Bellvine may be inconsistent if soil is dry.
	Anoda Weed (<i>Anoda cristata</i>), Hairy Wandering Jew (<i>Commelina benghalensis</i>)		Apply when weeds are cotyledon to 3 leaves.		
Red Kidney Beans, Red Mexican Beans	Thornapples (<i>Datura</i> spp.)	Qld, NSW, Vic, WA only	1.5 L or 2 L	8 weeks	Apply low rate when weeds are cotyledon to 4 leaves and high rate when 5 to 8 leaves.
	Noogoora Burr (<i>Xanthium pungens</i>)		Apply low rate when weeds are cotyledon to 3 leaves and high rate when 4 to 6 leaves.		
	Annual Ground Cherry (<i>Physalis angulata</i>), Apple of Peru (<i>Nicandra physalodes</i>), Bellvine (<i>Ipomea plebeia</i>), Cobblers Pegs (<i>Bidens pilosa</i>), Star Burr (<i>Acanthospermum hispidum</i>), Variegated Thistle (<i>Silybum marianum</i>)		2 L		Apply when weeds are cotyledon to 4 leaves. Variegated Thistle should be less than 15 cm in diameter. Annual Ground Cherry should be less than 1.5 cm high. Control of Bellvine may be inconsistent if soil is dry.
	Anoda Weed (<i>Anoda cristata</i>), Hairy Wandering Jew (<i>Commelina benghalensis</i>)	Qld only	Apply when weeds are cotyledon to 3 leaves.		
Soybeans	Thornapples (<i>Datura</i> spp.)	Qld, NSW, Vic, WA only	1.5 L or 2 L	8 weeks	Apply low rate when weeds are cotyledon to 4 leaves and high rate when 5 to 8 leaves.
	Noogoora Burr (<i>Xanthium pungens</i>)		Apply low rate when weeds are cotyledon to 3 leaves and high rate when 4 to 6 leaves.		
	Annual Ground Cherry (<i>Physalis angulata</i>), Apple of Peru (<i>Nicandra physalodes</i>), Bellvine (<i>Ipomea plebeia</i>), Cobblers Pegs (<i>Bidens pilosa</i>), Star Burr (<i>Acanthospermum hispidum</i>), Variegated Thistle (<i>Silybum marianum</i>)		2 L		Apply when weeds are cotyledon to 4 leaves. Variegated Thistle should be less than 15 cm in diameter. Annual Ground Cherry should be less than 1.5 cm high. Control of Bellvine may be inconsistent if soil is dry.

CROP	WEEDS	STATE	RATE/ ha	WHP	CRITICAL COMMENTS
Soybeans – continued	Anoda Weed (<i>Anoda cristata</i>), Hairy Wandering Jew (<i>Commelina benghalensis</i>)	Qld only	2 L	8 weeks	Apply when weeds are cotyledon to 3 leaves.
	Bathurst Burr (<i>Xanthium spinosum</i>), Blackberry Nightshade (<i>Solanum nigrum</i>) (SUPPRESSION ONLY)	NSW only	2 L plus 2 L of Ampol* D-C Trate per ha		Apply as a post-emergent spray no later than early 4 leaf stage of the weeds.

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

WITHHOLDING PERIODS (WHP):

PEANUTS:

DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.

BROAD BEANS, GREEN BEANS:

DO NOT HARVEST FOR 5 WEEKS AFTER APPLICATION.

NAVY BEANS, RED KIDNEY BEANS, RED MEXICAN BEANS, SOYBEANS:

DO NOT HARVEST FOR 8 WEEKS AFTER APPLICATION.

GENERAL INSTRUCTIONS

RESISTANT WEEDS WARNING

BROADSTAR® Herbicide is a member of

GROUP	C	HERBICIDE
-------	---	-----------

 herbicide of the benzothiadiazole group of herbicides. BROADSTAR is a herbicide which inhibits photosynthesis at photosystem II. For weed resistance management BROADSTAR is a Group C herbicide. Some naturally-occurring weed biotypes resistant to BROADSTAR, 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 BROADSTAR or other Group C herbicides. Since 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 BROADSTAR to control resistant weeds.

APPLICATION

Ground Application: BROADSTAR is a contact herbicide and therefore thorough coverage of the foliage of weeds is essential. To obtain thorough coverage BROADSTAR should be applied through properly calibrated and maintained spray equipment at a volume of 220 to 440 L water per ha and pressure of 240 to 340 kPa.

Coverage will be reduced if weeds are being shaded by the crop or by any other factors such as drift or dusty leaves that prevent the herbicide reaching target leaves. Best results will be obtained when conditions favour rapid growth.

Aerial Application: (Read instructions for Ground Application first)

Apply with aircraft fitted with either conventional boom and nozzles or with Micronair rotary atomizers flying between 3 to 4 metres above the ground. Booms should be fitted with D8 to D12 nozzles and calibrated to apply at least 50 L/ha with overlapping swaths to prevent striping. Micronairs should be calibrated to apply at least 35 L/ha with droplets between 200 to 250 microns and swaths overlapping to prevent striping. Avoid droplets smaller than 200 micron as they are susceptible to evaporation.

DO NOT APPLY under hot and dry conditions. Best results are obtained from late afternoon or early morning spraying.

DO NOT APPLY under strong or gusty wind conditions (more than 5 knots) as striping will occur.

Split Applications: Weeds do not all germinate at once and application should not be delayed to catch later germinations. When late germinations of weeds occur a second application is advisable before the crop canopy closes.

The Effects of Stress and Weather: Application is not recommended to crops suffering from stress induced by drought, water logging, hail damage, frost or injury from other pesticides or crop injury may occur. Such stress conditions may also harden weeds making them more difficult to kill.

BROADSTAR is a water soluble concentration and hot, dry conditions may cause spray to evaporate reducing covering and the performance on weeds. Rain within eight hours of spraying is likely to reduce the effectiveness of BROADSTAR resulting in poor weed control.

Wetting Agent: In Tasmania (only) a non-ionic wetting agent such as Wetspray® 1000 at 125 mL per 100 litres of the volume should be added when BROADSTAR is sprayed on Navy (Haricot) Beans and Green (Dwarf French) Beans. In general, the addition of wetter does not improve control of weeds in other areas.

However, with less susceptible weeds or if spray coverage is less than optimum the addition of Wetspray 1000 may improve control.

MIXING

BROADSTAR mixes readily with water. Add the required amount of BROADSTAR to the spray tank when filling and agitate to give even mixing.

COMPATIBILITY

BROADSTAR can be applied after pre-planting application of trifluralin or EPTC.

CROP SAFETY

Green Beans, Navy Beans, Red Kidney Beans, Red Mexican Beans: Beans are tolerant of BROADSTAR after the first two trifoliolate leaves are fully expanded. There may be leaf scorch but this will not affect yields.

DO NOT apply unless two trifoliolate leaves are present except as per directions for use in Tasmania on green beans or severe damage may result. When used in Tasmania do not apply after flower bud formation.

Peanuts: Apply after the crop is 12 cm high.

Soybeans: Soybeans are tolerant of BROADSTAR at all stages of growth. Mild leaf scorching may occur but will not affect yield.

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 OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

STORAGE AND DISPOSAL

Store in the closed, original container in a well-ventilated area, as cool as possible. DO NOT store for prolonged periods in direct sunlight. Triple or (preferably) pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. Break, crush, 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, vegetation and roots. Empty containers and product should NOT be burnt.

SAFETY DIRECTIONS

May irritate the eyes and skin. Avoid contact with eyes and skin. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126.

MSDS

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

CONDITIONS OF SALE: The use of BROADSTAR® Herbicide 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 resulting from the use of this product.

* Registered trademarks of ADAMA Agricultural Solutions Ltd Company

* Other trademarks

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

Adama Australia Pty. Ltd. ABN 55 050 328 973

Suite 1, Level 4, Building B,

207 Pacific Highway

St Leonards NSW 2065 Australia

Tel: (02) 9431 7800 Fax: (02) 9431 7700

APVMA Number: 64592/100612