

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

BEANZONE® 480

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 per the DIRECTIONS FOR USE table.

Important: READ THIS BOOKLET BEFORE USING THIS PRODUCT

APVMA Approval No: 831693/107693



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DIRECTIONS FOR USE:

RESTRAINTS: 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>), Com 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.
					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 BS1000 at 125 mL per 100 litres of the spray volume is necessary for optimum weed control.

CROP	WEEDS	STATE	RATE/ha	WHP	CRITICAL COMMENTS
Green beans (Dwarf French)	Thornapples (<i>Datura spp.</i>)	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>)		2 L		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>)				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	
Green beans (Dwarf French) cont.	Anoda weed (<i>Anoda cristata</i>), Hairy wandering jew (<i>Commelina benghalensis</i>)	Qld only	2 L	5 weeks	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>),	Tas only	1L	2L		Apply when unifoliolate bean leaf is fully expanded.
			3L		Apply when first trifoliolate bean leaf is fully expanded.	
					Ensure weeds are less than 5 cm high and second trifoliolate bean leaf is fully expanded.	
	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, SA only	3L		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 BS1000 at 125 mL per 100 litres of the spray volume is necessary for optimum weed control.	

CROP	WEEDS	STATE	RATE/ha	WHP	CRITICAL COMMENTS
Navy beans (Haricot)	Thornapples (<i>Datura spp.</i>)	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.

CROP	WEEDS	STATE	RATE/ha	WHP	CRITICAL COMMENTS
Navy beans (Haricot) cont.	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	8 weeks	Ensure weeds are less than 5 cm high. The addition of a non-ionic surfactant such as BS1000 at 125 mL per 100 litres of the spray volume is necessary for optimum weed control in Tasmania.

CROP	WEEDS	STATE	RATE/ha	WHP	CRITICAL COMMENTS
Peanuts	Thornapples (<i>Datura spp.</i>)	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.
	Anoda weed (<i>Anoda cristata</i>), Hairy wandering jew (<i>Commelina benghalensis</i>)				Control of bellvine may be inconsistent if soil is dry. Apply when weeds are cotyledon to 3 leaves.

CROP	WEEDS	STATE	RATE/ha	WHP	CRITICAL COMMENTS
Red kidney beans, red mexican beans	Thornapples (<i>Datura spp.</i>)	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.
	Anoda weed (<i>Anoda cristata</i>), Hairy wandering jew (<i>Commelina benghalensis</i>)	Qld Only			Control of bellvine may be inconsistent if soil is dry.

CROP	WEEDS	STATE	RATE/ha	WHP	CRITICAL COMMENTS
Soybeans	Thornapples (<i>Datura spp.</i>)	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.
	Anoda weed (<i>Anoda cristata</i>), Hairy wandering jew (<i>Commelina benghalensis</i>)	Qld only			Control of bellvine may be inconsistent if soil is dry. Apply when weeds are cotyledon to 3 leaves.

CROP	WEEDS	STATE	RATE/ha	WHP	CRITICAL COMMENTS
Soybeans cont.	Bathurst burr (<i>Xanthium spinosum</i>) and Blackberry nightshade (<i>Solanum nigrum</i>) (SUPPRESSION ONLY)	NSW only	2 L plus 2 L of D-C- Trate † per ha	8 weeks	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.**

WITHOLDING 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

APPLICATION

Ground Application: BEANZONE 480 HERBICIDE is a contact herbicide and therefore thorough coverage of the foliage of weeds is essential. To obtain thorough coverage BEANZONE 480 HERBICIDE 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.

BEANZONE 480 HERBICIDE 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 BEANZONE 480 HERBICIDE resulting in poor weed control.

Wetting Agent: In Tasmania (only) a non-ionic wetting agent such as BS1000 at 125 mL per 100 litres of the volume should be added when BEANZONE 480 HERBICIDE 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 BS1000 may improve control.

MIXING

BEANZONE 480 HERBICIDE mixes readily with water. Add the required amount of BEANZONE 480 HERBICIDE to the spray tank when filling and agitate to give even mixing.

COMPATIBILITY

BEANZONE 480 HERBICIDE 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 BEANZONE 480 HERBICIDE 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 BEANZONE 480 HERBICIDE at all stages of growth. Mild leaf scorching may occur but will not affect yield.

RESISTANT WEEDS WARNING

GROUP	C	HERBICIDE
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BEANZONE 480 HERBICIDE is a member of the benzothiadiazole group of herbicides. BEANZONE 480 HERBICIDE is a herbicide which inhibits photosynthesis at photosystem II. For weed resistance management BEANZONE 480 HERBICIDE is a Group C herbicide.

Some naturally-occurring weed biotypes resistant to BEANZONE 480 HERBICIDE, 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 BEANZONE 480 HERBICIDE or other Group C herbicides.

Since occurrence of resistant weeds is difficult to detect prior to use, Grow Choice Pty Ltd accepts no liability for any losses that may result from the failure of BEANZONE 480 HERBICIDE to control resistant weeds.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Do NOT contaminate streams, rivers or waterways with BEANZONE 480 HERBICIDE or used containers.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Do NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray to drift onto nearby susceptible plants, adjacent crops, crop lands or pasture.

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-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.

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 13 11 26.

SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet, which is available from the supplier.

NOTICE TO BUYER

Grow Choice Pty. Ltd. will not be held liable for any loss, injury or damage, indirect or consequential, arising from the sale, supply, use or application of this product. The product is not to be used for any purpose or in any way contrary to label instructions.