

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

The logo for Baron 400 WG Selective Herbicide features the word "BARON" in large, bold, dark green capital letters. A yellow starburst graphic is positioned behind the letter "O". To the right of "BARON" is "400 WG" in a lighter green, bold font. Below "BARON" is the text "Selective Herbicide" in a smaller, dark green font. A green wavy line runs horizontally behind the "BARON" text.

BARON[®] 400 WG
Selective Herbicide

ACTIVE CONSTITUENT: 400 g/kg OXYFLUORFEN

GROUP 14 HERBICIDE

For selective weed control of grass and broadleaf weeds in onions, certain brassica vegetables and pyrethrum as specified in the Directions For Use table.

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Net Contents 1 kg and 10 kg

DIRECTIONS FOR USE

RESTRAINTS

DO NOT allow stock to graze any treated plants.

DO NOT apply to crops stressed by heat or cold.

CROP SITUATION	WEEDS CONTROLLED	TIME OF APPLICATION	RATE	CRITICAL COMMENTS
Transplanted Cabbages Cauliflower Broccoli Brussels sprouts	<i>Amaranthus</i> spp. <i>Amsinckia</i> (<i>Amsinckia</i> spp.) Apple of Peru (<i>Nicandra physaloides</i>) Barley grass (<i>Hordeum</i> spp.) Barnyard grass (<i>Echinochloa</i> spp.) Bellvine (<i>Ipomoea plebeia</i>) Blackberry nightshade (<i>Solanum nigrum</i>) Bladder ketmia (<i>Hibiscus trionum</i>) Buckshorn plantain (<i>Plantago lanceolata</i>) Burrgrass (<i>Cenchrus australis</i>) Caltrop (<i>Tribulus terrestris</i>) Capeweed (<i>Arctotheca calendula</i>) Cleavers (<i>Galium aparine</i>) Crowsfoot grass (<i>Eleusine indica</i>) Deadnettle (<i>Lamium amplexicaule</i>) Dock (<i>Rumex</i> spp.) Fumitory/pinkweed (<i>Fumaria</i> spp.) Giant pigweed (<i>Trianthema portulacastrum</i>) Green amaranth (<i>Amaranthus viridis</i>) Groundsel (<i>Senecio vulgaris</i>) Ivy-leaf speedwell (<i>Veronica hederifolia</i>) Liverseed grass (<i>Urochloa panicoides</i>) Lovegrass (<i>Eragrostis</i> spp.)	Immediately after transplanting and no later than 3 days after transplanting to weed-free soil	0.5 to 1.0 kg/ha	Apply Baron® 400 WG as soon as possible after transplanting and no later than 3 days after transplanting to a weed-free soil. For crops grown for processing (Tasmania only), apply Baron 400 WG as soon as possible after transplanting, preferably within 3 days, and no later than 10 days after transplanting to a weed-free soil. Rain or irrigation is required shortly after application, preferably within 7 days, to activate the product and maximise residual weed control. Some leaf spotting on the older leaves may occur on some varieties. Note: Some Brussels sprouts varieties e.g. 'Speedia', growing in light soils may be damaged and result in some seedling failures. Under cool humid conditions, some varieties of broccoli and cabbage may be damaged resulting in yield reductions, particularly at higher rates. Consequently, small areas should be tested first. Use the lower rate under cold, wet conditions (mid-winter) or on medium soils and higher rate in warmer weather (summer) on heavy soils. Make only one application per crop. Do not use on light sandy soils unless small-scale testing has proven Baron 400 WG to be safe to the variety.
Transplanted for processing Cabbages Cauliflower Broccoli and Brussels sprouts (Tasmania only)	Pigeon grass (<i>Setaria</i> spp.) Pigweed (<i>Portulaca oleracea</i>) Prickly lettuce (<i>Lactuca</i> spp.) Rayless chamomile (<i>Matricaria matricarioides</i>) Red Natal grass (<i>Rhynchelytrum repens</i>) Red root (<i>Amaranthus</i> spp.) Redshank (<i>Amaranthus cruentus</i>) Ryegrass (<i>Lolium rigidum</i>) Sesbania pea (<i>Sesbania cannabina</i>) Shepherd's purse (<i>Capsella bursa-pastoris</i>) Smallflower mallow (<i>Malva parviflora</i>) Sow thistle (<i>Sonchus oleraceus</i>) Speedwell (<i>Veronica persica</i>) Starburr (<i>Acanthospermum hispidum</i>) Stinkgrass (<i>Eragrostis cilianensis</i>) Summer grass (<i>Digitaria</i> spp.) Thornapple (<i>Datura stramonium</i>) Twin cress (<i>Coronopus didymus</i>) White eye (<i>Richardia brasiliensis</i>) Wild carrot (<i>Daucus carota</i>) Wild hops (<i>Nicandra physaloides</i>) Wild mustard (<i>Sisymbrium</i> spp.) Wild turnip (<i>Brassica rapa</i>) Wireweed (<i>Polygonum aviculare</i>) Suppression only Chickweed (<i>Stellaria media</i>) Wild radish (<i>Raphanus raphanistrum</i>)	As soon as possible after transplanting, preferably within 3 days, and no later than 10 days after transplanting to weed-free soil		DO NOT mix any surfactants or any other pesticide with Baron 400 WG as serious crop damage may occur.

CROP SITUATION	WEEDS CONTROLLED	TIME OF APPLICATION	RATE	CRITICAL COMMENTS
Onions (seeded)	Apple of Peru (<i>Nicandra physaloides</i>) Blackberry nightshade (<i>Solanum nigrum</i>) Buckshorn plantain (<i>Plantago lanceolata</i>) Caltrop (<i>Tribulus terrestris</i>) Cleavers (<i>Galium aparine</i>) Deadnettle (<i>Lamium amplexicaule</i>) Dock (<i>Rumex</i> spp.) Fumitory/pinkweed (<i>Fumaria</i> spp.) Groundsel (<i>Senecio vulgaris</i>) Pigweed (<i>Portulaca oleracea</i>) Redroot (<i>Amaranthus retroflexus</i>) Sow thistle (<i>Sonchus oleraceus</i>) Twin cress (<i>Coronopus didymus</i>) Wireweed (<i>Polygonum aviculare</i>)	Begin applications no sooner than the onion 2 true leaf stage (excludes 'flag' or 'hook' leaf) to weed-free soil	150 to 300 g/ha	Apply Baron 400 WG to a weed-free soil, once onions have at least 2 true leaves. If weeds are present, treat these first with a suitable contact herbicide. Use the low rate when onions are small and conditions are wet and cold. The higher rate can be used once onions have 3 true leaves. Repeat the applications at 4 to 6 week intervals as required. Do not use more than 1.2 kg/ha per crop. Treat any emerged weeds with suitable contact herbicides, if required, prior to the Baron 400 WG application. When mixed with Tribunil Selective Herbicide follow Tribunil label instructions. DO NOT mix any surfactants or other pesticides with Baron 400 WG as serious crop damage may occur.
	Fat hen (<i>Chenopodium album</i>)		300 g/ha	
Onions (seeded) Tasmania only	Stinging nettle (<i>Urtica dioica</i>) Bindweed (<i>Convolvulus arvensis</i>)		150 to 300 g/ha plus Tribunil® Selective Herbicide	
Established pyrethrum	<i>Amaranthus</i> spp. <i>Amsinckia</i> (<i>Amsinckia</i> spp.) Barley grass (<i>Hordeum</i> spp.) Barnyard grass (<i>Echinochloa</i> spp.) Blackberry nightshade (<i>Solanum nigrum</i>) Buckshorn plantain (<i>Plantago lanceolata</i>) Capeweed (<i>Arctotheca calendula</i>) Cleavers (<i>Galium aparine</i>) Crowsfoot grass (<i>Eleusine indica</i>) Deadnettle (<i>Lamium amplexicaule</i>) Dock (<i>Rumex</i> spp.) Fumitory/pinkweed (<i>Fumaria</i> spp.) Groundsel (<i>Senecio vulgaris</i>) Ivy-leaf speedwell (<i>Veronica hederifolia</i>) Redshank (<i>Amaranthus cruentus</i>) Ryegrass (<i>Lolium rigidum</i>) Shepherd's purse (<i>Capsella bursa-pastoris</i>) Smallflower mallow (<i>Malva parviflora</i>) Sow thistle (<i>Sonchus oleraceus</i>) Speedwell (<i>Veronica persica</i>) Wild carrot (<i>Daucus carota</i>) Wild mustard (<i>Sisymbrium</i> spp.) Wild turnip (<i>Brassica rapa</i>) Wireweed (<i>Polygonum aviculare</i>) Suppression only Chickweed (<i>Stellaria media</i>) Wild radish (<i>Raphanus raphanistrum</i>)	Prior to weed emergence in autumn	0.5 to 1.0 kg/ha	Apply Baron 400 WG in the autumn following harvest and just prior to autumn weed germination. Applications following autumn rains may result in crop damage. Use the lower rate on medium soils and higher rate on heavy soils. DO NOT mix surfactants or any other pesticides with Baron 400 WG.

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

WITHHOLDING PERIODS

HARVEST:

NOT REQUIRED WHEN USED AS DIRECTED.

GRAZING:

DO NOT GRAZE TREATED WEEDS OR PRODUCE.

GENERAL INSTRUCTIONS

Baron 400 WG is an effective residual herbicide for control of a range of grass and broadleaf weeds. Baron 400 WG has very little contact action on weeds and should be used alone, on clean, weed-free ground, immediately after transplanting cabbages, cauliflowers, broccoli and Brussels sprouts or post-emergence over onions with at least 2 true leaves and prior to weed emergence in pyrethrum. Depending on the rate applied, Baron 400 WG will provide good residual control for several weeks in onions and this control may be extended by applying repeat applications. Longest residual activity will occur under cold, wet, overcast conditions and on soils low in organic matter.

Timing

For optimum residual weed control, treated area should be left undisturbed during the time period for which weed control is desired. Spot treatment, with knockdown herbicides, for emerged weeds may be necessary.

Mixing

Add the product directly to the half-filled spray tank while agitating. Continue to agitate while topping up the tank with water and during spraying. Reseal partly used container immediately after use.

Application

Baron 400 WG may be applied by conventional boomspray equipment capable of applying the necessary volumes of spray per hectare. Best results will be obtained by using 400 litres of spray per hectare. Spraying at low pressure (e.g. 200 kPa) using fan nozzles will give uniform coverage of the soil surface.

DO NOT apply Baron 400 WG through irrigation systems.

Spray Equipment Hygiene

Before and after spraying Baron 400 WG, spray equipment including tanks, nozzles, filters and spraylines should be cleaned thoroughly with a commercially available tank and equipment cleaner such as All Clear® DS.

Crop Safety

Apply this product carefully. Spray drift may cause serious damage to other desirable plants. Do not use on sandy soils until small-scale tests prove that the product will not cause crop damage. Some leaf spotting can occur due to the activity of the spray, or from rain splashes from the soil following application, and the extent of damage may vary between varieties. The size and age of transplanted seedlings may also affect the selectivity of Baron 400 WG, with younger seedlings potentially more susceptible. Conduct small-scale crop safety tests prior to treating large numbers of plants.

Caution: The selectivity of Baron 400 WG to transplanted seedlings may be affected by applications of adjuvants (e.g. wetting agents, oils, etc.) to the leaves up to 10 days before or after the application of Baron 400 WG. Check with your seedling supplier prior to applying Baron 400 WG.

DO NOT resow or replant into Baron 400 WG-treated soil within 6 months of last application without prior germination testing.

DO NOT apply more than 1.5 kg per hectare Baron 400 WG or any other products containing oxyfluorfen in any 12 month period.

Compatibility

May be mixed with Tribunil Selective Herbicide as per Tribunil label instructions. DO NOT mix any surfactants or other pesticides with Baron 400 WG as serious crop damage may occur.

RESISTANT WEEDS WARNING

GROUP 14 HERBICIDE

Baron 400 WG is a member of the diphenyl ether group of herbicides. The mode of action of Baron 400 WG is to inhibit protoporphyrinogen oxidase. For weed resistance management, Baron 400 WG is a Group 14 herbicide. Some naturally-occurring weed biotypes resistant to Baron 400 WG and other inhibitors of protoporphyrinogen oxidase 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 weeds will not be controlled by Baron 400 WG or other inhibitors of protoporphyrinogen oxidase herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, AgNova Technologies Pty Ltd accepts no liability for any losses that may result from the failure of Baron 400 WG to control resistant weeds.

PRECAUTIONS

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

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 LIVESTOCK

DO NOT allow stock to graze any treated plants.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

This product is highly toxic to wildlife and fish.

DO NOT contaminate streams, rivers or waterways with the chemical or used containers. Use care when applying in areas frequented by wildlife or adjacent to any body of water.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.

Shake and empty contents into spray tank. Do not dispose of undiluted chemicals on site. 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.

SAFETY DIRECTIONS

Harmful if inhaled. Will irritate the skin, eyes, nose and throat. Avoid contact with eyes and skin. If product on skin, immediately wash the area with soap and water. If product in eyes, wash it out immediately with water. DO NOT inhale dust. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves, goggles and a disposable dust mask covering mouth and nose. If applying by hand (backpack) wear cotton overalls over normal clothing, buttoned to the neck and wrist and elbow-length chemical resistant gloves. Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing.

FIRST AID

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

SAFETY DATA SHEET

If additional hazard information is required refer to the Safety Data Sheet. For a copy visit our website at agnova.com.au

CONDITIONS OF SALE

AgNova Technologies Pty Ltd shall not be liable for any consequential or other loss or damage relating to the supply or subsequent handling or use of this product, unless such liability by law cannot be lawfully excluded or limited. All warranties, conditions or rights implied by statute or other law which may be lawfully excluded are so excluded. Where the liability of AgNova Technologies Pty Ltd for breach of any such statutory warranties and conditions cannot be lawfully excluded but may be limited to it re-supplying the product or an equivalent product or the cost of a product or an equivalent product, then the liability of AgNova Technologies Pty Ltd for any breach of such statutory warranty or condition is so limited.

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This label requires no additional statements in accordance with the Globally Harmonised System of Classification and Labelling (GHS).

In a transport emergency dial 000, Police or Fire Brigade.
For specialist advice in an emergency only, call 1800 033 111 (24 hours).

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