

# READ SAFETY DIRECTIONS BEFORE OPENING OR USING



## HERBICIDE

**Active Constituent:** 750 g/kg TRIFLOXYSULFURON SODIUM

For the control of certain broadleaf weeds and suppression of Nutgrass in Cotton as per Directions for Use.

GROUP **B** HERBICIDE

APVMA Approval No: 54157/0903

Pack size: 100 g (10 x 100g)

## GENERAL INSTRUCTIONS

ENVOKE Herbicide is a water dispersible granule herbicide for the control of certain broadleaf weeds and suppression of nutgrass in cotton. Symptoms of control of nutgrass appear over 1 to 2 weeks.

ENVOKE should be used as part of a weed management program. It is recommended to use a range of management tools to control weeds, including herbicides, cultivation, machinery hygiene and crop competitiveness. Refer to the CRC weed management guidelines for the latest information on the best strategies to control weeds in cotton and use ENVOKE as one part of a management program.

Since crops other than cotton may be sensitive to low soil concentrations of ENVOKE, careful consideration should be given to crop rotations prior to using the product. (see Crop Rotation Guidelines).

Some yellowing of terminal growth may occur following an early post-emergent application of ENVOKE. Avoid spraying under cool, overcast conditions or in situations where crops are not actively growing or under stress due to drought, cold weather, hail, water-logged soil, disease infection, insect damage or nutrient deficiency. Crop effects are usually of short duration and under normal conditions produce no detrimental effects on yields.

### Resistant Weeds Warning

ENVOKE Herbicide is a member of the sulfonylurea group of herbicides and has the ALS Inhibitor mode of action. For weed resistance management this product is a Group B herbicide. Some naturally occurring weed biotypes resistant to ENVOKE Herbicide and other sulfonylurea 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 ENVOKE Herbicide or other Group B herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Syngenta Crop Protection Pty Limited accepts no liability for any losses that may result from the failure of ENVOKE Herbicide to control the resistant weeds. Advice as to strategies and alternative treatments that can be used should be obtained from your local supplier, consultant, local Department of Agriculture, Primary Industries Department or a Syngenta representative.

### Mixing

ENVOKE Herbicide mixes readily with water - no pre-mixing is required.

This product must be mixed with water and applied by suitable spray equipment.

1. Fill vat no more than 25% full with clean water before adding ENVOKE. Begin agitating vat contents vigorously and continue agitation during entire mixing and spraying operations.
2. Pour required amount of ENVOKE steadily into vat. Allow vigorous bypass agitation to completely disperse product. DO NOT dump product into vat all at once.
3. After adding required quantity of ENVOKE and obtaining complete dispersion, continue to fill vat to desired level for spraying.
4. Add required quantity of BS1000 or Agral (0.25%) with continued agitation.

5. Thorough agitation (preferably mechanical) of the spray liquid is essential during the addition of the product and during the entire spraying operation. Recirculate if left to stand.

**N.B. Spray solution should NOT be left standing in the vat overnight.**

### Application

Apply by boom spray, applying a minimum of 100 litres of water per hectare. Avoid overlapping of spray runs.

ENVOKE will primarily be applied as a band spray. **ENVOKE should be applied using 2 directed flat fan nozzles mounted on droppers positioned either side of the plant row. This ensures adequate coverage of all weeds in the band width and reduces the amount of product intercepted by the cotton foliage.**

ENVOKE should be applied as a directed spray from the 8 leaf to row closure crop growth stage or when using rates above 15 g/ha.

### Sprayer Cleanup

Thoroughly clean spray equipment using the following procedure when you have finished spraying highly active materials such as sulfonylurea products. Start with a thoroughly cleaned sprayer before beginning the next job.

1. **Mix only as much spray solution as needed. Immediately after spraying, clean equipment thoroughly using this procedure. Wear appropriate protective clothing.** As a first step, flush tank, hoses, boom and nozzles with clean water.
  2. Prepare a cleaning solution of 300 mL of household chlorine bleach (containing 4% chlorine) per 100 L of water. Ensure bleach used is fresh as it can degrade significantly over time resulting in a reduction in cleaning ability.
  3. When available, use a pressure washer to clean the inside of the spray tank with this solution. Take care to wash all parts of the tank, including the inside top surface and lid.
  4. Completely fill the sprayer with the cleaning solution to ensure contact of the cleaning solution with all internal surfaces of the tank and plumbing. Start agitation in the sprayer and thoroughly recirculate the cleaning solution for at least 15 minutes. All visible deposits must be removed from the spraying system and in cases where there is the possibility of heavy build up of residues the cleaning solution may need to be left in the tank for extended periods to ensure adequate decontamination of the tank.
  5. Flush hoses, spray lines and nozzles for at least one minute with the cleaning solution.
  6. Dispose of rinsate from steps 1 to 5 in an appropriate manner.
  7. **Repeat steps 2 to 5.**
  8. Remove nozzles, screens and strainers and clean separately in the cleaning solution after completing the above procedures. Be careful with filters, as they are a main source of contamination.
  9. Rinse the complete spraying system with clean water.
- The above method is only effective if the cleaning solution comes into contact with every surface or contact point that**

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## GENERAL INSTRUCTIONS (*continued*)

may contain even minute sulfonylurea herbicide residues. In some boom sprayers this may not be physically possible and hence it may be advisable to use a different boomsprayer, that has not been used to spray sulfonylurea herbicides, when spraying sensitive crops such as legumes and especially Canola.

### Compatibility

ENVOKE is compatible with Staple\*.

### Crop Rotation Guidelines

Where the product is applied at recommended rates the ENVOKE treated area can be replanted after the interval indicated in the table below. These recommendations are made on the assumption that ENVOKE is applied in a cotton crop that reaches maturity in the season of application.

Replanting Interval	Crop
6 months	Wheat, Oats and Barley
7 months	Faba Beans
9 months	Mung Beans and Cotton
15 months	Soybean and Pigeon Peas
18 months	Chickpeas
22 months	Sunflower, Sorghum and Maize

For all other crops a replanting interval of 22 months should be observed.

### PRECAUTION

**Re-entry Period:** DO NOT allow entry into treated areas until the spray has dried. When prior entry is necessary and if exposure to treated foliage is likely, wear 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

This product is very highly toxic to non-target plants including aquatic plants. DO NOT apply under weather conditions or from spraying equipment that may cause spray to drift onto nearby susceptible plants/crops, cropping lands, pastures and other non-target plants or natural and impounded lakes, dams or other waterways. All applications should be made in accordance with the Best Management Practices Manual for cotton.

### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

### STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. Dispose of at a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

### SAFETY DIRECTIONS

**Will irritate the eyes and skin. Avoid contact with eyes and skin. Wash hands after use.**

**When preparing spray wear:**

- cotton overalls buttoned to the neck and wrist (or equivalent clothing) and
- elbow-length PVC gloves.

**After each day's use wash gloves and contaminated clothing.**

### FIRST AID

**If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 131 126.**

### MATERIAL SAFETY DATA SHEET

If additional hazard information is required refer to the Material Safety Data Sheet. For a copy phone 1800 067 108 or visit our website at [www.syngenta.com.au](http://www.syngenta.com.au)

### MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY

Syngenta has no control over storage, handling and manner of use of this product. Where this material is not stored, handled or used correctly and in accordance with directions, no express or implied representations or warranties concerning this product (other than non-excludable statutory warranties) will apply. Syngenta accepts no liability for any loss or damage arising from incorrect storage, handling or use.

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## DIRECTIONS FOR USE

**Restrictions:** DO NOT apply by air.  
 DO NOT apply under cool, overcast conditions.  
 DO NOT apply when the crop or weeds are not actively growing.  
 DO NOT apply if heavy rain is forecast.  
 DO NOT irrigate treated areas within the next 48 hours of application.  
 DO NOT make more than 1 application per season.

Crop and Growth Stage	Weeds Controlled	Weed Growth Stage at Application	Rate/ha	Critical Comments
Cotton 2 leaf to row closure	Dwarf Amaranth ( <i>Amaranthus macrocarpus</i> ), Burr Medic ( <i>Medicago polymorpha</i> ), Noogoora Burr ( <i>Xanthium occidentale</i> ), Sesbania Pea ( <i>Sesbania cannibina</i> ), Yellow Vine ( <i>Tribulus micrococcus</i> ), Bathurst Burr ( <i>Xanthium spinosum</i> ), Boggabri Weed ( <i>Amaranthus mitchellii</i> ), Native Amaranth ( <i>Amaranthus interruptus</i> )	up to 40 cm diameter up to 15 cm diameter up to 8 leaf up to 8 leaf up to 15 cm diameter 2 to 4 leaf 2 leaf to 20 cm diameter or height 5 to 20 cm diameter or height	15 g plus BS1000 or Agral® at 0.25%	Apply post-emergent in a minimum of 100 L water per ha when crop and weeds are actively growing.  Apply over the top of cotton from 2 leaf until 8 leaf.  Apply as a directed application for cotton from above 8 leaf to row closure or when cotton plants start to shade weeds.
	Suppression of: Budda Pea ( <i>Aeschynomena indica</i> ), Noogoora Burr Complex (mixed populations of <i>Xanthium</i> spp), Peach Vine ( <i>Ipomoea lonchophylla</i> )	up to 8 leaf up to 4 leaf up to 8 leaf		
	Suppression of: Nutgrass ( <i>Cyperus rotundus</i> )	3 to 6 leaf	30 g plus BS1000 or Agral at 0.25%	<b>Apply as a directed application only.</b> ENVOKE should be used as part of a program including other weed control techniques to manage Nutgrass.

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

### WITHHOLDING PERIOD

**Cotton: DO NOT HARVEST FOR 8 WEEKS AFTER APPLICATION  
 DO NOT GRAZE OR CUT FOR STOCK FOOD.**

